



# 产品目录

CATALOG OF PRODUCTS

用“芯”创造美好生活

HDSC  
华大半导体  
HUADA SEMICONDUCTOR



上海贝岭  
SHANGHAI BELLING



# 产品目录

## Catalog of Products

### POWER MANAGEMENT 电源管理

|                                                          |    |
|----------------------------------------------------------|----|
| DC/DC STEP-DOWN CONVERTER (降压型DC/DC转换器)                  | 01 |
| DC/DC STEP-UP CONVERTER (升压型DC/DC转换器)                    | 04 |
| CMOS TYPE LDO LINEAR REGULATOR (CMOS型低压差线性稳压器)           | 05 |
| BIPOLAR TYPE LDO LINEAR REGULATOR (双极型低压差线性稳压器)          | 10 |
| LI-ION BATTERY CHARGER (锂电池充电芯片)                         | 11 |
| LI-ION BATTERY PROTECTION (锂电池保护芯片)                      | 13 |
| LED BACKLIGHT/LIGHTING/SCREEN DRIVER (LED背光、照明驱动电路、显示驱动) | 13 |
| LOAD SWITCH (精密限流负载开关)                                   | 14 |
| THREE-TERMINAL POSITIVE REGULATOR (三端稳压器)                | 14 |
| VOLTAGE DETECTOR/RESET IC (电压检测器/复位IC)                   | 14 |
| DDR MEMORY POWER IC (DDR存储器电源IC)                         | 15 |
| INVERTING-NEGATIVE OUTPUT (反相-输出负压)                      | 15 |
| AC/DC CONVERTER (AC/DC转换器)                               | 16 |
| NON-ISOLATION HV BUCK ME86 SERIES (非隔离型降压芯片ME86系列)       | 18 |
| AC LED DRIVER (AC输入LED驱动芯片)                              | 18 |
| SYNCHRONOUS RECTIFICATION CONTROLLER (同步整流控制器)           | 18 |
| AC/DC CONVERTER SUPPLY (恒压恒流控制器)                         | 19 |

### SMART METER IC 表计芯片

|                                    |    |
|------------------------------------|----|
| ENERGY MEASUREMENT ASIC (电能计量专用电路) | 20 |
| MEASUREMENT IC OF IOT(物联网计量电路)     | 20 |
| RELAY DRIVER (磁保持继电器驱动芯片)          | 20 |
| LCD DISPLAY DRIVER (液晶显示驱动芯片)      | 21 |

### SOC 系统级专用芯片

|                                                     |    |
|-----------------------------------------------------|----|
| METER SOC (电能表专用系统级芯片)                              | 21 |
| GENERAL PURPOSE MCU (通用微控制器)                        | 21 |
| OPTICAL TRANSCEIVER SOC (光模块专用微控制器)                 | 21 |
| POWER LINE COMMUNICATION MODEM CHIP (电力线载波通信调制解调电路) | 22 |

### ISOLATOR 隔离器芯片

|                          |    |
|--------------------------|----|
| DIGITAL ISOLATOR (数字隔离器) | 22 |
|--------------------------|----|

### STANDARD INTERFACE CIRCUIT 接口电路

|                                 |    |
|---------------------------------|----|
| RS-485 TRANSCEIVERS (RS-485收发器) | 23 |
| RS-232 TRANSCEIVERS (RS-232收发器) | 23 |
| VIDEO FILTER DRIVER (视频滤波驱动)    | 23 |

### AMPLIFIERS 放大器

|                                                           |    |
|-----------------------------------------------------------|----|
| LOW VOLTAGE GENERAL OPERATIONAL AMPLIFIERS (低压通用运算放大器)    | 24 |
| MEDIUM VOLTAGE GENERAL OPERATIONAL AMPLIFIERS (中压通用运算放大器) | 24 |
| HIGH VOLTAGE GENERAL OPERATIONAL AMPLIFIERS (高压通用运算放大器)   | 24 |
| LOW NOISE OPERATIONAL AMPLIFIERS (低噪声运算放大器)               | 24 |
| PRECISION OPERATIONAL AMPLIFIERS (高精度运算放大器)               | 25 |
| NANO-POWER OPERATIONAL AMPLIFIERS (纳安级运算放大器)              | 25 |
| CLASS AB AUDIO AMPLIFIER (AB类音频功放电路)                      | 25 |
| CLASS D AUDIO AMPLIFIER (D类音频功放电路)                        | 25 |

### ANALOG SWITCH 模拟开关

### DRIVE CIRCUIT 驱动电路

|                                      |    |
|--------------------------------------|----|
| DC MOTOR DRIVER (马达驱动)               | 26 |
| HALF-BRIDGE DRIVER (半桥驱动)            | 26 |
| MOS DRIVER (MOS驱动)                   | 27 |
| DARLINGTON TRANSISTOR ARRAYS (达林顿驱动) | 27 |
| SMOKE DETECTOR (烟雾检测电路)              | 27 |
| REAL TIME CLOCK (微功耗实时时钟)            | 27 |

### EEPROM 存储器

### ADC/DAC 数据转换器

### VOLTAGE REFERENCES 电压基准源

### MOSFET 金属氧化物半导体场效应晶体管

|                                                  |    |
|--------------------------------------------------|----|
| DOUBLE TRENCH MOSFET (双沟槽场效应晶体管)                 | 31 |
| TRENCH MOSFET (沟槽场效应晶体管)                         | 33 |
| HIGH VOLTAGE SUPER JUNCTION MOSFET (高压超结型场效应晶体管) | 35 |
| HIGH VOLTAGE PLANAR MOSFET (高压平面型场效应晶体管)         | 36 |

### IGBT 绝缘栅双极晶体管

### BELLING SOLUTIONS 贝岭解决方案

|                                                          |    |
|----------------------------------------------------------|----|
| UTOMOBILE IGNITER (汽车点火器)                                | 41 |
| AUTOMOBILE LIGHTING SOLUTION (汽车车灯)                      | 41 |
| AUTOMOBILE MAIN DRIVE MOTOR CONTROL (汽车主驱电机控制)           | 42 |
| AUTOMOBILE ELECTRONIC OIL/WATER PUMP DRIVER (汽车电子油泵水泵驱动) | 42 |
| AUTOMOBILE AIR CONDITIONING CONTROL PANEL (汽车空调控制板)      | 43 |
| AUTOMOBILE BMS (汽车BMS)                                   | 43 |
| AUTOMOBILE WINDOW CONTROL (汽车车窗控制)                       | 44 |
| ENERGY METERING (智能电表)                                   | 44 |
| ENERGY MONITORING (电能监测)                                 | 45 |
| SMART MCB (智能微型断路器)                                      | 45 |
| GAS METER (燃气表)                                          | 46 |
| LCD TV (平板电视)                                            | 46 |
| HOUSEHOLD AIR CONDITIONER (家用空调)                         | 47 |
| OPTICAL COMMUNICATION (光通讯)                              | 47 |
| PHOTOVOLTAIC (光伏)                                        | 48 |
| FREQUENCY CONVERTER (变频器)                                | 48 |
| LI-ION BATTERY PROTECTION (锂电保护)                         | 49 |
| STB (机顶盒)                                                | 49 |
| WIRELESS SMART LOCK (无线智能锁)                              | 50 |

### INTRODUCTION OF SHANGHAI BELLING 上海贝岭简介

### INDEX OF PART NUMBER 型号索引

25

26

28

29

30

31

40

41

50

51



# Power Management 电源管理

## DC/DC Step-down Converter (降压型DC/DC转换器) BL 系列



| Part No. | Power Switching              | MODE                | VIN      | VOUT             | IQ    | FOSC        | Eff. | Max. Duty Cycle | Accu. | IOUT | Package                               | Application                                | Reference              |
|----------|------------------------------|---------------------|----------|------------------|-------|-------------|------|-----------------|-------|------|---------------------------------------|--------------------------------------------|------------------------|
| BL8028   | Built-in MOSFET, Synchronous | PWM/PFM             | 2.6~5.5V | ADJ (Vfb=0.6V)   | 80μA  | 2MHz        | 97%  | 100%            | ±2%   | 1.5A | SOT23-5<br>DFN2x2-6L<br>DFN1.6x1.6-6L | Cell Phone, STB, Portable Device           | SY8008, RT8008, RT8024 |
| BL8038   | Built-in MOSFET, Synchronous | PWM/PFM             | 2.6~5.5V | ADJ (Vfb=0.6V)   | 55μA  | 2MHz        | 97%  | 100%            | ±2%   | 1A   | SOT23-5                               | Cell Phone, STB, Portable Device           |                        |
| BL8039   | Built-in MOSFET, Synchronous | PWM/PFM             | 2.6~5.5V | ADJ (Vfb=0.6V)   | 80μA  | 2MHz        | 97%  | 100%            | ±2%   | 2A   | SOT23-5                               | Cell Phone, STB, Portable Device           |                        |
| BLL2206  | Built-in MOSFET, Synchronous | PWM/PFM             | 2.3~5.5V | ADJ (Vfb=0.5V)   | 50μA  | 4MHz        | 96%  | 100%            | ±1%   | 6A   | DFN3x2-9L                             | Low-Voltage High-Density Power System, IOT |                        |
| BL8032   | Built-in MOSFET, Synchronous | PWM/PFM             | 4.2~18V  | ADJ (Vfb=0.8V)   | 0.5mA | 500KHz      | 96%  | 92%             | ±2%   | 2A   | SOT23-6                               | DPS, STB                                   | MP1470                 |
| BL8032G  | Built-in MOSFET, Synchronous | PWM/PFM             | 4.5~18V  | ADJ (Vfb=0.8V)   | 0.5mA | 500KHz      | 96%  | 92%             | ±2%   | 2A   | SOT23-6                               | DPS, STB                                   | MP1470                 |
| BL8032S  | Built-in MOSFET, Synchronous | PWM/PFM             | 3.5~16V  | ADJ (Vfb=0.6V)   | 0.5mA | 500KHz      | 96%  | 95%             | ±2%   | 2A   | SOT23-6                               | DPS, STB                                   | SY8120                 |
| BLL2310C | Built-in MOSFET, Synchronous | PWM/PFM             | 4.5~18V  | ADJ (Vfb=0.8V)   | 0.5mA | 1MHz        | 96%  | 92%             | ±2%   | 2A   | SOT23-6                               | DPS, STB                                   | MP1470H                |
| BLL2311C | Built-in MOSFET, Synchronous | Forced PWM          | 4.5~18V  | ADJ (Vfb=0.8V)   | 0.5mA | 500KHz      | 96%  | 92%             | ±2%   | 2A   | SOT23-6                               | DPS, STB                                   | MP1470B                |
| BL8033   | Built-in MOSFET, Synchronous | PWM/PFM             | 4.5~16V  | ADJ (Vfb=0.8V)   | 0.5mA | 500KHz      | 96%  | 92%             | ±2%   | 3A   | SOT23-6                               | DPS, STB                                   | MP1471                 |
| BL8034   | Built-in MOSFET, Synchronous | PWM/PFM             | 4.2~16V  | ADJ (Vfb=0.923V) | 0.5mA | 500KHz      | 95%  | 92%             | ±2%   | 4A   | ESOP8                                 | TV, FPGA Power Supply, LED Driver          | MP1484                 |
| BLL2452S | Built-in MOSFET, Synchronous | COT                 | 4.2~16V  | ADJ (Vfb=0.8V)   | 150μA | 500KHz      | 94%  | 80%             | ±2%   | 2.5A | SOT23-6                               | DPS, STB                                   |                        |
| BLL2453  | Built-in MOSFET, Synchronous | COT                 | 4.2~16V  | ADJ (Vfb=0.8V)   | 150μA | 500KHz      | 95%  | 80%             | ±2%   | 3A   | SOT563<br>SOT23-6                     | DPS, STB                                   |                        |
| BL8036   | Built-in MOSFET, Synchronous | PWM/PFM             | 4.2~28V  | ADJ (Vfb=0.8V)   | 150μA | 500KHz      | 94%  | 93%             | ±2%   | 3A   | ESOP8<br>SOT23-6                      | DPS, STB                                   |                        |
| BL8037   | Built-in MOSFET, Synchronous | PWM/PFM             | 4.2~28V  | ADJ (Vfb=0.8V)   | 150μA | 500KHz      | 94%  | 93%             | ±2%   | 2A   | ESOP8                                 | DPS, STB                                   |                        |
| BLL2620  | Built-in MOSFET, Synchronous | PWM/PFM             | 5.0~28V  | ADJ (Vfb=0.8V)   | 250μA | 150KHz ~ADJ | 97%  | 80%             | ±2%   | 5A   | QFN4x4-14L                            | DPS, Wireless Charger                      |                        |
| BLL2730  | Built-in MOSFET              | Jitter+CC/CV+Isense | 8.5~34V  | 5.0V             | 1.5mA | 135KHz      | 95%  | -               | ±2%   | 3.5A | SOP8                                  | Car Charger                                |                        |
| BLL2731  | Built-in MOSFET              | Jitter+CC/CV+Isense | 8.5~34V  | ADJ (Vfb=1V)     | 1.5mA | 135KHz      | 95%  | 100%            | ±2%   | 3.5A | SOP8                                  | Car Charger                                |                        |
| BLL2735  | Built-in MOSFET              | CC/CV               | 8.5~30V  | ADJ (Vfb=1V)     | 1.5mA | 150~330KHz  | 95%  | -               | ±2%   | 3.6A | SOP8                                  | Car Charger                                |                        |



# DC/DC Step-down Converter (降压型DC/DC转换器) BL 系列

| Part No. | Power Switching                               | MODE                    | VIN      | VOUT                   | IQ     | FOSC   | Eff. | Max. Duty Cycle | Accu. | IOUT | Package    | Application                             | Reference         |
|----------|-----------------------------------------------|-------------------------|----------|------------------------|--------|--------|------|-----------------|-------|------|------------|-----------------------------------------|-------------------|
| BLL2740  | Built-in MOSFET                               | Jitter+CC/<br>CV+Isense | 8.5~42V  | ADJ<br>(Vfb=1V)        | 1.5mA  | 135KHz | 95%  | 100%            | ±2%   | 3.5A | SOP8       | Car Charger                             |                   |
| BLL2741  | Built-in MOSFET                               | Jitter+CC/<br>CV+Isense | 8.0~43V  | 5.1V                   | 1.5mA  | 135KHz | 95%  | 95%             | ±2%   | 4A   | ESOP8      | Car Charger                             |                   |
| BLL2741Q | Built-in MOSFET                               | Jitter+CC/<br>CV+Isense | 8.5~35V  | 5.1V                   | 1.5mA  | 135KHz | 95%  | 95%             | ±2%   | 4A   | ESOP8      | Car Charger                             |                   |
| BLL2742  | Built-in MOSFET                               | Jitter+CC/<br>CV+Isense | 8.5~42V  | 5.05V                  | 1.6mA  | 130KHz | 96%  | 95%             | ±2%   | 5.5A | SOP8       | Car Charger                             |                   |
| BLL2745  | Built-in MOSFET                               | Jitter+CC/<br>CV+Isense | 8.5~42V  | 5.05V                  | 1.6mA  | 280KHz | 96%  | 95%             | ±2%   | 5.5A | QFN4x4-14L | Car Charger                             |                   |
| BLL2748  | Built-in MOSFET                               | Jitter+CC/<br>CV+Isense | 8.5~40V  | ADJ<br>(Vfb=1V)        | 1.5mA  | 135KHz | 95%  | 100%            | ±2%   | 3.5A | SOP8       | Car Charger                             |                   |
| BLL2752  | External MOSFET                               | Jitter+CC/<br>CV+Isense | 8.5~40V  | 5.05V                  | 1.6mA  | 130KHz | 96%  | 95%             | ±2%   | 15A  | ESOP8      | Car Charger                             |                   |
| BLL2770  | Built-in MOSFET                               | CC                      | 7.0~40V  | -                      | -      | 135KHz | 93%  | 100%            | ±3%   | 3.5A | SOP8       | Car Light                               |                   |
| BLL2771  | Built-in MOSFET,<br>Synchronous               | CC                      | 7.0~70V  | -                      | -      | 150KHz | 93%  | 92%             | ±3%   | 4A   | QFN5x5-14L | Car Light                               |                   |
| BLL2681  | Built-in high-side<br>MOSFET,<br>Synchronous  | PWM/PFM                 | 7.0~70V  | ADJ(3~40V)<br>(Vfb=1V) | 0.6mA  | 150KHz | 92%  | 91%             | ±2%   | 1.2A | SOP8       | DPS, POE, Industrial<br>Application     |                   |
| BLL2682  | Built-in high-side<br>MOSFET,<br>Synchronous  | PWM/PFM                 | 7.0~70V  | ADJ(3~40V)<br>(Vfb=1V) | 0.6mA  | 150KHz | 94%  | 91%             | ±2%   | 2A   | SOP8       | DPS, POE, Industrial<br>Application     |                   |
| BLL2683  | Built-in high-side<br>MOSFET,<br>Synchronous  | PWM/PFM                 | 7.0~70V  | ADJ(3~40V)<br>(Vfb=1V) | 0.6mA  | 150KHz | 94%  | 91%             | ±2%   | 3A   | SOP8       | DPS, POE, Industrial<br>Application     |                   |
| BLL2783  | Built-in high-side<br>MOSFET,<br>Synchronous  | PWM/PFM                 | 7.0~70V  | ADJ(3~40V)<br>(Vfb=1V) | 0.6mA  | 150KHz | 94%  | 91%             | ±2%   | 3A   | SOP8       | DPS, POE, Industrial<br>Application     |                   |
| BL9315   | Built-in MOSFET,<br>Synchronous               | PWM/PFM                 | 2.5~5.5V | ADJ<br>(Vfb=0.6V)      | 40μA   | 1.5MHz | 95%  | -               | ±2%   | 3A   | ESOP8      | Digital Camera, STB,<br>Portable Device |                   |
| BL9342   | Built-in high-side<br>MOSFET,<br>Asynchronous | PWM/PFM                 | 4.2~40V  | ADJ<br>(Vfb=0.794V)    | 200μA  | 1.8MHz | 90%  | -               | ±2%   | 0.6A | SOT23-6    | High Voltage Power<br>Conversion, DPS   | MP2451,<br>LM2842 |
| BL9362   | Built-in high-side<br>MOSFET                  | PWM/PFM                 | 4.5~60V  | ADJ<br>(Vfb=0.795V)    | 0.65mA | 2MHz   | 95%  | 87%             | ±2%   | 0.6A | SOT23-6    | Smart Meter,<br>Industrial Application  | MP2451,<br>LM2842 |
| BL9366   | Built-in high-side<br>MOSFET,<br>Asynchronous | PWM/PFM                 | 5.0~60V  | ADJ<br>(Vfb=0.812V)    | 0.7mA  | 480KHz | 90%  | 90%             | ±2%   | 0.6A | SOT23-6    | Power Meter, DPS                        | MP2459            |
| BL9368   | Built-in high-side<br>MOSFET,<br>Asynchronous | PWM/PFM                 | 5.0~60V  | ADJ<br>(Vfb=0.812V)    | 0.7mA  | 480KHz | 90%  | 90%             | ±2%   | 1.2A | ESOP8      | Power Meter, DPS                        |                   |



# DC/DC Step-down Converter (降压型DC/DC转换器) ME 系列

| Part No. | Power Switching | MODE              | VIN      | VOUT                    | IQ     | FOSC           | Accu. | IOUT | Package           |
|----------|-----------------|-------------------|----------|-------------------------|--------|----------------|-------|------|-------------------|
| ME3107   | Synchronous     | PFM               | 2.7~5.5V | 1.0~4.0V                | 0.76μA | -              | ±2.5% | 0.2A | SOT23-5           |
| ME3100   | Synchronous     | PFM/PWM           | 2.5~6.0V | 0.6~5V<br>(Vfb=0.6V)    | 50μA   | 1.5MHz         | ±2%   | 1A   | SOT23-5           |
| ME3102   | Synchronous     | PFM/PWM           | 2.5~6.0V | 1.2~5V<br>(Vfb=0.6V)    | 45μA   | 1.4MHz/1.75MHz | ±2%   | 1A   | SOT23-5 DFN2×2-6L |
| ME3103   | Synchronous     | PFM/PWM           | 2.5~5.5V | 1.2~5V<br>(Vfb=0.6V)    | 40μA   | 1.5MHz         | ±2%   | 1A   | SOT23-5 DFN2×2-6L |
| ME3104-N | Synchronous     | PFM/PWM           | 2.8~6.0V | 0.6~6V<br>(Vfb=0.6V)    | 50μA   | 1.5MHz         | ±2%   | 2A   | SOT23-5           |
| ME3108   | Sync hronous    | PFM/PWM           | 2.8~5.5V | 0.8~3.6V                | 15μA   | 1.2MHz         | ±2%   | 2A   | SOT23-5 SOT23-6L  |
| ME3109   | Synchronous     | PFM/PWM<br>OR PWM | 2.8~5.5V | 0.8~3.6V                | 15μA   | 1.2MHz         | ±2%   | 3A   | DFN2×2-6L         |
| ME3141   | Synchronous     | PFM/PWM           | 2.6~5.5V | 0.6~5V                  | 60μA   | 1.5MHz         | ±2%   | 1A   | SOT23-5           |
| ME3110   | Synchronous     | PFM/PWM           | 4.4~18V  | 1.2~7V<br>(Vfb=0.6V)    | 120μA  | 500KHz         | ±2%   | 2A   | SOT23-6           |
| ME3111   | Synchronous     | PFM/PWM           | 4.8~18V  | 1.2~7V<br>(Vfb=0.6V)    | 130μA  | 500KHz         | ±1.5% | 3A   | TSOT23-6          |
| ME3112   | Synchronous     | PFM/PWM           | 4.1~18V  | 0.6~5V<br>(Vfb=0.6V)    | 120μA  | 1.4MHz         | ±2%   | 2A   | SOT563            |
| ME3146   | Synchronous     | PFM/PWM           | 4.2~18V  | 0.8~17V<br>(Vfb=0.8V)   | 500μA  | 600KHz         | ±2%   | 3A   | SOT23-6           |
| ME3113   | Synchronous     | PFM/PWM           | 4.5~18V  | 0.6~5V<br>(Vfb=0.6V)    | 120μA  | 500KHz         | ±2%   | 3A   | SOT23-6           |
| ME3114   | Synchronous     | PWM               | 3.3~18V  | 0.6~5V<br>(Vfb=0.6V)    | 600μA  | 200KHz~1.6MHz  | ±2%   | 7A   | QFN4×4-16L        |
| ME3118   | Synchronous     | PWM               | 4.5~18V  | 1.2~5V<br>(Vfb=0.8V)    | 1.6mA  | 500KHz         | ±1.5% | 4A   | ESOP8 DFN3×3-8L   |
| ME3125   | Synchronous     | PFM/PWM           | 4.6~24V  | 0.6~5V<br>(Vfb=0.6V)    | 120μA  | 500KHz         | ±2%   | 5A   | ESOP8             |
| MEI3001  | Asynchronous    | PWM               | 4.75~40V | 1.2~5V<br>(Vfb=0.8V)    | 0.6mA  | 550KHz         | ±1.5% | 0.6A | SOT23-6           |
| ME3116   | Asynchronous    | PWM               | 4.75~40V | 1.2~5V<br>(Vfb=0.8V)    | 1.3mA  | 550KHz         | ±1.5% | 1A   | SOT23-6           |
| ME3121   | Synchronous     | PFM/PWM           | 4.7~40V  | 1.2~5V<br>(Vfb=0.6V)    | 120μA  | 1MHz           | ±2%   | 1A   | SOT23-6           |
| ME3148   | Asynchronous    | PWM               | 8.0~36V  | 1.25~33V<br>(Vfb=1.25V) | 2mA    | 160KHz         | ±1.5% | 3A   | ESOP8             |
| ME3123   | Synchronous     | PFM/PWM           | 4.7~40V  | 1.2~5V<br>(Vfb=0.6V)    | 135μA  | 500KHz         | ±2%   | 5A   | ESOP8             |
| ME3131   | Synchronous     | PFM/PWM           | 4.0~48V  | 1.2~5V<br>(Vfb=0.6V)    | 135μA  | 1.4MHz         | ±2%   | 0.6A | SOT23-6           |
| ME3136   | Synchronous     | PFM/PWM           | 4.5~60V  | 0.8~57V<br>(Vfb=0.8V)   | 200μA  | 1.6MHz         | ±2%   | 0.6A | SOT23-6           |
| ME3201   | Synchronous     | PFM/PWM           | 4.5~20V  | 0.6~6V<br>(Vfb=0.6V)    | 1.5mA  | 800KHz~4MHz    | ±1%   | 5A   | QFN24             |



## DC/DC Step-up Converter (升压型DC/DC转换器) BL 系列

| Part No.        | Power Switching               | MODE    | VIN      | VOUT                  | IQ     | FOSC   | Eff. | Accu. | IOUT  | Package                                  | Application                                            | Reference                          |
|-----------------|-------------------------------|---------|----------|-----------------------|--------|--------|------|-------|-------|------------------------------------------|--------------------------------------------------------|------------------------------------|
| <b>BL8531</b>   | Internal MOSFET, Asynchronous | PFM     | 0.8~7.0V | 2.5~6.0V<br>0.1V step | 12μA   | 350KHz | 85%  | ±2%   | 200mA | SOT23-3 TSOT23-3<br>SOT23-5 SOT89-3 TO92 | Toy, Wireless Mouse                                    | RT9261, AIC1642,<br>XC6383, S-8351 |
| <b>BL8531C</b>  | External MOSFET, Asynchronous | PFM     | 0.8~12V  | 2.5~6.0V<br>0.1V step | 20μA   | 350KHz | 90%  | ±2%   | 500mA | SOT23-3 SOT23-5<br>SOT89-3               | Toy, Wireless Mouse                                    | XC6368                             |
| <b>BL8536</b>   | Internal MOSFET, Synchronous  | PWM     | 0.9~5.0V | 1.8~3.6V              | 15μA   | 1MHz   | 95%  | ±2%   | 300mA | SOT23-3 SOT23-5<br>SOT89-3               | Bluetooth Device                                       |                                    |
| <b>BL8042C</b>  | Internal MOSFET, Asynchronous | PWM/PFM | 2.5~24V  | Vin~28V<br>(Vfb=0.6V) | 0.25mA | 1.2MHz | 97%  | ±2%   | 2A    | SOT23-5                                  | STB                                                    |                                    |
| <b>BL8042D</b>  | Internal MOSFET, Asynchronous | PWM/PFM | 2.5~24V  | Vin~28V<br>(Vfb=0.6V) | 0.25mA | 1.2MHz | 97%  | ±2%   | 2A    | SOT23-6                                  | STB                                                    |                                    |
| <b>BLL3330</b>  | Internal MOSFET, Asynchronous | PWM/PFM | 6.0~28V  | Vin~80V<br>(Vfb=0.4V) | 0.32mA | 120KHz | -    | -     | -     | ESOP8                                    | LCD Television & Monitor,<br>Flat Panel Display Device |                                    |
| <b>BLL3330C</b> | External MOSFET, Asynchronous | PWM/PFM | 6.0~28V  | Vin~80V<br>(Vfb=0.4V) | 0.32mA | 120KHz | -    | -     | -     | SOP8                                     | LCD Television & Monitor,<br>Flat Panel Display Device |                                    |

## DC/DC Step-up Converter (升压型DC/DC转换器) ME 系列

| Part No.        | Power Switching    | MODE        | VIN      | VOUT                 | FOSC          | Accu. | IOUT             | Package                              |
|-----------------|--------------------|-------------|----------|----------------------|---------------|-------|------------------|--------------------------------------|
| <b>ME2135</b>   | Built-in NMOS&PMOS | Charge Pump | 1.8~5.5V | 2.7~5.0V             | 650KHz        | ±3%   | 300mA<br>3V→3.3V | SOT23-6 DFN2×2-6L                    |
| <b>ME2188</b>   | Built-in NMOS&PMOS | PFM         | 0.9~5.5V | 1.9~5.0V             | 320KHz        | ±2%   | 450mA<br>3V→3.3V | SOT89-3 SOT23 SOT23-3 SOT23-5 TO92   |
| <b>ME2188-N</b> | Built-in NMOS&PMOS | PFM         | 0.9~5.5V | 1.9~5.0V             | 320KHz        | ±2%   | 650mA<br>3V→3.3V | SOT23                                |
| <b>ME2107</b>   | Built-in NMOS&PMOS | PFM         | 0.9~5.5V | 1.8~5.0V             | 320KHz        | ±2%   | 500mA<br>3V→3.3V | SOT23-5                              |
| <b>ME2186</b>   | Built-in NMOS&PMOS | PFM         | 0.9~5.5V | 1.8~6.0V             | 320KHz        | ±2%   | 500mA<br>3V→5V   | SOT89-3                              |
| <b>ME2185</b>   | Built-in NMOS&PMOS | PFM/PWM     | 2.9~4.4V | <5.5V<br>(Vfb=1.25V) | 1MHz          | ±2%   | 2.5A<br>3.3V→5V  | ESOP8                                |
| <b>ME2167</b>   | Built-in NMOS&NMOS | PFM/PWM     | 2.7~12V  | <12.6V<br>(Vfb=1.2V) | 200KHz~2MHz   | ±2%   | 2.5A<br>3.3V→9V  | DFN4.5×3.5-20L QFN2.5×3.5-18L        |
| <b>ME2177</b>   | Built-in NMOS&NMOS | PFM         | 2.7~12V  | <12.6V<br>(Vfb=1.2V) | 200KHz~2.2MHz | ±2%   | 2A<br>3.3V→9V    | QFN2.5×2.0-11L QFN2.0×2.0-11L        |
| <b>ME2187</b>   | Built-in NMOS&NMOS | PFM/PWM     | 2.7~12V  | <12.6V<br>(Vfb=1.2V) | 200KHz~2.2MHz | ±2%   | 3A<br>3.3V→9V    | DFN4.5×3.5-20L QFN2.5×3.5-18L ESOP16 |
| <b>ME2108</b>   | Built-in NMOS      | PFM         | 0.9~6.5V | 2.0~7.0V             | 180KHz        | ±2.5% | 400mA<br>3V→5V   | SOT23-5 SOT89-3 SOT23-3 TO92 SOT23   |
| <b>ME2101</b>   | Built-in NMOS      | PWM         | 0.9~6.5V | 2.0~5.0V             | 100KHz        | ±2.5% | 350mA<br>3V→3.3V | SOT23-5 SOT23-3 SOT89-3              |
| <b>ME2104</b>   | Built-in NMOS&NMOS | PFM         | 0.9~6.0V | 1.8~5.0V             | 0KHz~1.2MHz   | ±2%   | 200mA<br>3V→3.3V | SOT23-5                              |



## DC/DC Step-up Converter (升压型DC/DC转换器) ME 系列

| Part No. | Power Switching | MODE    | VIN      | VOUT                | FOSC        | Accu. | IOUT           | Package                 |
|----------|-----------------|---------|----------|---------------------|-------------|-------|----------------|-------------------------|
| ME2110   | Built-in NMOS   | PFM     | 0.9~6.0V | 1.8~6.0V            | 150K/360KHz | ±2%   | 1A<br>3V→3.3V  | SOT23-5 SOT23-3 SOT89-3 |
| ME2129   | Built-in NMOS   | PFM/PWM | 0.9~6.0V | <20V<br>(Vfb=1.25V) | 300KHz      | ±2%   | 500mA<br>3V→5V | SOT23-5                 |
| ME2149   | Built-in NMOS   | PFM/PWM | 0.9~6.0V | <20V<br>(Vfb=1.25V) | 1MHz        | ±2%   | 1A<br>3V→5V    | SOT23-5 SOT89-5 SOP8    |
| ME2159   | Built-in NMOS   | PFM/PWM | 2.5~5.5V | <12V<br>(Vfb=0.6V)  | 650KHz      | ±2%   | 1A<br>3V→5V    | SOT23-6                 |
| ME2109   | External NMOS   | PFM/PWM | 0.9~6.0V | <20V<br>(Vfb=1.25V) | 300KHz      | ±2%   | 1A<br>3V→5V    | SOT23-5                 |
| ME2139   | External NMOS   | PFM/PWM | 0.9~6.0V | <20V<br>(Vfb=1.25V) | 1MHz        | ±2%   | 3A<br>3.6V→5V  | SOT23-5                 |
| ME2169   | External NMOS   | PFM/PWM | 2.5~6.0V | <20V<br>(Vfb=1.25V) | 1MHz        | ±2%   | 3A<br>3.6V→5V  | SOT23-6                 |
| ME2179   | External NMOS   | PFM/PWM | 1.8~5.5V | <20V<br>(Vfb=0.6V)  | 1.2MHz      | ±2%   | 3A<br>3.6V→5V  | SOT23-6                 |
| ME2190   | Built-in NMOS   | PFM/PWM | 2.5~24V  | <28V<br>(Vfb=0.6V)  | 1.2MHz      | ±2%   | 1A<br>9V→24V   | SOT23-6                 |
| MEI2001  | External NMOS   | PFM/PWM | 1.5~30V  | <20V<br>(Vfb=1.25V) | 300KHz      | ±2%   | 1.5A<br>5V→9V  | SOT23-6                 |
| ME2199   | External NMOS   | PFM/PWM | 2.7~25V  | <20V<br>(Vfb=1.25V) | 1MHz        | ±2%   | 2A<br>5V→9V    | TSOT23-8 SOP8           |

## CMOS Type LDO Linear Regulator (CMOS型低压差线性稳压器) BL 系列

| Part No. | Features                                                                   | VIN      | VOUT                  | Accu. | PSRR      | IQ   | IOUT(Max.) | Package                                      | Application                                                      | Reference                    |
|----------|----------------------------------------------------------------------------|----------|-----------------------|-------|-----------|------|------------|----------------------------------------------|------------------------------------------------------------------|------------------------------|
| BL8063   | Low Dropout Voltage, Low Noise, High PSRR, Fast Response                   | 2.0~6.0V | 1.0~4.5V<br>0.1V step | ±2%   | 70dB@1KHz | 35μA | 300mA      | SC70-5 SOT23-3<br>SOT23-5<br>DFN1x1-4L       | Battery-powered Equipment,<br>Mouse, Cell Phone                  | XC6219,<br>RT9193,<br>RT9198 |
| BL8063G  | Low Dropout Voltage, High PSRR, Fast Response                              | 2.0~6.0V | 1.0~3.6V<br>0.1V step | ±2%   | 70dB@1KHz | 60μA | 300mA      | SC70-5 SOT23-3<br>SOT23-5<br>DFN1x1-4L       | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                              |
| BL8067   | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 1.5~6.0V | 1.0~4.5V<br>0.1V step | ±2%   | 68dB@1KHz | 50μA | 300mA      | SOT23 SOT23-5<br>DFN1x1-4L                   | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                              |
| BL8067A  | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 1.5~6.0V | 1.0~4.5V<br>0.1V step | ±2%   | 68dB@1KHz | 50μA | 500mA      | SOT23-5 DFN1x1-4L                            | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                              |
| BL8563   | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 2.0~6.0V | 1.0~4.5V<br>0.1V step | ±2%   | 70dB@1KHz | 35μA | 300mA      | SC70-5 SOT23-5<br>SOT23 SOT23-3<br>DFN1x1-4L | Battery-powered Equipment,<br>Mouse, Reference Voltage<br>Source | XC6219,<br>RT9193,<br>RT9198 |



## CMOS Type LDO Linear Regulator (CMOS型低压差线性稳压器) BL 系列

| Part No. | Features                                                                   | VIN      | VOUT                  | Accu.   | PSRR       | IQ    | IOUT(Max.) | Package                                      | Application                                                      | Reference         |
|----------|----------------------------------------------------------------------------|----------|-----------------------|---------|------------|-------|------------|----------------------------------------------|------------------------------------------------------------------|-------------------|
| BL8563G  | Low Dropout Voltage, High PSRR, Fast Response, Output Discharge            | 1.5~6.0V | 0.9~3.6V<br>0.1V step | ±2%     | 70dB@1KHz  | 60μA  | 300mA      | SC70-5 SOT23-5<br>SOT23 SOT23-3<br>DFN1x1-4L | Battery-powered Equipment,<br>Mouse, Reference Voltage<br>Source |                   |
| BL8565   | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 2.0~7.0V | 1.0~4.5V<br>0.1V step | ±2%     | 70dB@1KHz  | 35μA  | 500mA      | SOT23 SOT23-3<br>SOT23-5 SOT89-3             | Battery-powered Equipment,<br>Mouse, Cell Phone                  | RT9162,<br>FS8853 |
| BL8565G  | Low Dropout Voltage, High PSRR, Fast Response, Output Discharge            | 2.0~6.0V | 0.9~3.6V<br>0.1V step | ±2%     | 70dB@1KHz  | 60μA  | 500mA      | SOT89-3                                      | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                   |
| BL8568   | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 2.0~6.0V | 1.0~4.5V<br>0.1V step | ±2%     | 70dB@1KHz  | 35μA  | 500mA      | SC70-5 SOT23-3<br>SOT23-5<br>DFN1x1-4L       | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                   |
| BL8568G  | Low Dropout Voltage, High PSRR, Fast Response, Output Discharge            | 2.0~6.0V | 0.9~3.6V<br>0.1V step | ±2%     | 70dB@1KHz  | 60μA  | 500mA      | SC70-5 SOT23-3<br>SOT23 SOT23-5<br>DFN1x1-4L | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                   |
| BL8071   | Low Dropout Voltage,<br>Low Noise                                          | 1.5~6.0V | 1.2~5.0V<br>0.1V step | ±2%/±1% | 70dB@100Hz | 100μA | 1.5A       | SOT223 DFN2x2-6L<br>DFN3x3-6L                | Battery-powered Equipment,<br>PC Peripheral, Wireless Device     |                   |
| BL8071G  | Low Dropout Voltage,<br>High PSRR                                          | 1.5~6.0V | 1.1~5.0V<br>0.1V step | ±2%/±1% | 65dB@1KHz  | 100μA | 1.5A       | SOT223 TO252                                 | Battery-powered Equipment,<br>PC Peripheral, Wireless Device     |                   |
| BL8073   | Low Dropout Voltage,<br>Low Noise                                          | 1.5~6.0V | 1.2~5.0V<br>0.1V step | ±2%/±1% | 65dB@100Hz | 100μA | 1A         | SOT23-5                                      | Battery-powered Equipment,<br>PC Peripheral, Wireless Device     |                   |
| BL8073G  | Low Dropout Voltage,<br>High PSRR                                          | 1.5~6.0V | 1.2~5.0V<br>0.1V step | ±2%/±1% | 65dB@1KHz  | 100μA | 1A         | SOT23-5                                      | Battery-powered Equipment,<br>PC Peripheral, Wireless Device     |                   |
| BL8074   | Low Dropout Voltage,<br>Low Noise                                          | 1.5~6.0V | 1.2~5.0V<br>0.1V step | ±2%/±1% | 65dB@100Hz | 100μA | 800mA      | SOT89-3                                      | Battery-powered Equipment,<br>PC Peripheral, Wireless Device     |                   |
| BL8074G  | Low Dropout Voltage,<br>High PSRR                                          | 1.5~6.0V | 1.2~5.0V<br>0.1V step | ±2%/±1% | 65dB@1KHz  | 100μA | 800mA      | SOT89-3                                      | Battery-powered Equipment,<br>PC Peripheral, Wireless Device     |                   |
| BL8079   | Low Dropout Voltage, High PSRR, Fast Response, Output Discharge            | 2.5~6.0V | ADJ<br>(0.8~5.0V)     | ±2%     | 60dB@1KHz  | 40μA  | 300mA      | SOT23-5                                      | Battery-powered Equipment,<br>Mouse, Cell Phone                  | SGM2032           |
| BL8079G  | Low Dropout Voltage, High PSRR, Fast Response, Output Discharge            | 2.0~6.0V | ADJ<br>(0.8~5.0V)     | ±2%     | 65dB@1KHz  | 65μA  | 300mA      | SOT23-5                                      | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                   |
| BL8079A  | Low Dropout Voltage, High PSRR, Fast Response, Output Discharge            | 2.5~6.0V | ADJ<br>(0.8~5.0V)     | ±2%     | 60dB@1KHz  | 40μA  | 600mA      | SOT23-5 SC70-5                               | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                   |
| BL8079AG | Low Dropout Voltage, High PSRR, Fast Response, Output Discharge            | 1.5~6.0V | ADJ<br>(0.8~5.0V)     | ±2%     | 65dB@1KHz  | 65μA  | 600mA      | SOT23-5 DFN2x2-6L                            | Battery-powered Equipment,<br>Mouse, Cell Phone                  |                   |
| BL8555   | Low Noise, High PSRR                                                       | 1.8~8.0V | 1.2~5.0V<br>0.1V step | ±2%/±1% | 65dB@1KHz  | 25μA  | 150mA      | SOT23-5 SC70-5                               | Battery-powered Equipment,<br>Mouse, Reference Voltage Source    |                   |
| BL8558   | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | Max. 10V | 1.2~4.5V<br>0.1V step | ±2%/±1% | 66dB@100Hz | 75μA  | 500mA      | SOT89-3 SOT89-5<br>SOT23-3 SOT23-5<br>TO92   | Battery-powered Equipment,<br>Mouse, Cell Phone                  | RT9013,<br>RT9017 |



# CMOS Type LDO Linear Regulator (CMOS型低压差线性稳压器) BL 系列

| Part No.       | Features                                                                   | VIN       | VOUT                                 | Accu.   | PSRR       | IQ         | IOUT(Max.) | Package                                  | Application                                                       | Reference                    |
|----------------|----------------------------------------------------------------------------|-----------|--------------------------------------|---------|------------|------------|------------|------------------------------------------|-------------------------------------------------------------------|------------------------------|
| <b>BL8077</b>  | Low Power Consumption, Low Dropout Voltage                                 | 1.8~5.5V  | 1.2,1.8,2.5<br>2.8,3.0,3.3V          | ±2%     | -          | 0.8μA      | 300mA      | SOT23-5 DFN1x1-4L                        | Battery-powered Equipment,<br>Wireless Communication<br>Equipment |                              |
| <b>BL8503</b>  | Low Power Consumption, Low Dropout Voltage                                 | Max. 8.0V | 1.2~6.0V<br>0.1V step                | ±2%/±1% | -          | 3μA        | 250mA      | SOT23-3 SOT89-3<br>TO92                  | Battery-powered Equipment,<br>Mouse, Reference Voltage<br>Source  | XC6206                       |
| <b>BL8552</b>  | Low Power Consumption, Low Dropout Voltage, Low Noise                      | Max. 8.0V | 1.2~3.6V<br>0.1V step                | ±2%     | 60dB@100Hz | 2μA        | 300mA      | SOT23-3 SOT23-5<br>SOT89-3               | Battery-powered Equipment                                         |                              |
| <b>BL8064</b>  | Low Power Consumption, Low Dropout Voltage                                 | Max. 8.0V | 1.1~5.5V<br>0.1V step                | ±2%/±1% | -          | 1μA        | 200mA      | SOT23 SOT23-3<br>SOT23-5 SOT89-3<br>TO92 | Battery-powered Equipment,<br>Mouse                               | XC6206                       |
| <b>BL8060</b>  | Low Power Consumption, Low Dropout Voltage                                 | Max. 12V  | 1.1~5.5V<br>0.1V step                | ±2%/±1% | -          | 1μA        | 250mA      | SOT23-3 SOT23-5<br>SOT89-3 TO92          | Battery-powered Equipment,<br>Mouse                               |                              |
| <b>BL8061</b>  | Low Power Consumption, Low Dropout Voltage                                 | Max. 16V  | 1.1~5.0V<br>0.1V step                | ±2%/±1% | -          | 2μA        | 250mA      | SOT23-3 SOT23-5<br>SOT89-3               | Battery-powered Equipment,<br>Mouse                               |                              |
| <b>BL8062</b>  | Low Power Consumption, Low Dropout Voltage                                 | Max. 16V  | 1.2~5.0V<br>0.1V step                | ±2%/±1% | -          | 3μA        | 250mA      | SOT23-3 SOT89-3                          | Battery-powered Equipment,<br>Mouse                               |                              |
| <b>BL8072</b>  | Low Power Consumption, Low Dropout Voltage                                 | Max. 18V  | 1.2~5.0V                             | ±2%/±1% | -          | 3μA        | 2A         | SOT223 TO252                             | Battery-powered Equipment                                         |                              |
| <b>BL8075</b>  | Low Power Consumption, Low Dropout Voltage                                 | 3.0~16V   | 1.2~5.0V<br>0.1V step                | ±2%/±1% | -          | 10μA       | 500mA      | SOT23-5 SOT89-3                          | Battery-powered Equipment,<br>Mouse                               | MD53XX                       |
| <b>BL8078</b>  | Low Power Consumption, Low Dropout Voltage                                 | 3.0~40V   | 1.2~5.0V<br>0.1V step                | ±2%/±1% | -          | 2.5μA      | 150mA      | SOT89-3                                  | Battery-powered Equipment,<br>Car Application, Water Meter        | MD76XX                       |
| <b>BL11575</b> | Low Power Consumption, Low Dropout Voltage                                 | Max. 40V  | 1.2~5.0V<br>0.1V step                | ±2%/±1% | -          | 2.5μA      | 150mA      | DFN1.8x2-6L                              | Battery-powered Equipment,<br>Car Application, Water Meter        |                              |
| <b>BL8078Q</b> | AEC-Q100 Grade2, Low Power Consumption, Low Dropout Voltage                | 3.0~40V   | 3.3, 5.0V                            | ±2%     | 50dB@100Hz | 2.5μA      | 150mA      | SOP8                                     | Automotive, Battery-powered<br>Equipment                          |                              |
| <b>BL8566</b>  | Dual Channel, Low Noise, High PSRR                                         | Max. 6.0V | 1.2~3.5V<br>0.1V step                | ±2%/±1% | 70dB@1KHz  | 25μA<br>x2 | 300mA x2   | SOT23-6                                  | Battery-powered Equipment,<br>Cell Phone                          | RT9011,<br>XC6401            |
| <b>BL8569</b>  | Dual Channel, Low Noise, High PSRR                                         | 1.2~6.0V  | 1.2~4.5V<br>0.1V step                | ±2%     | 70dB@1KHz  | 30μA<br>x2 | 500mA x2   | SOT23-6                                  | Battery-powered Equipment,<br>Cell Phone                          |                              |
| <b>BL9110</b>  | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 2.5~6.0V  | 1.0~5.0V<br>ADJ(1~5V)                | ±2%/±1% | 70dB@1KHz  | 70μA       | 1A         | SOT223-3 TO252-3                         | Battery-powered Equipment,<br>Portable Communication<br>Equipment | TPS73701,<br>G1117<br>AP2114 |
| <b>BL9153</b>  | Low Power Consumption, Low Dropout Voltage                                 | 4.75~40V  | 1.8,3.3,3.6,<br>5.0~10V              | ±2%     | 50dB@100Hz | 6μA        | 500mA      | SOT89-3                                  | Smart Meter, Industrial Control                                   | SGM2203,<br>MD7634           |
| <b>BL9157</b>  | Low Power Consumption, Low Dropout Voltage                                 | Max. 30V  | 1.8,2.8,3.3,<br>3.6V,5.0V            | ±1%     | 60dB@217Hz | 2μA        | 150mA      | SOT23-5 SOT89-3                          | Battery-powered Equipment,<br>Audio/ Video Equipment              | HT75XX                       |
| <b>BL9161G</b> | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 2.2~6.0V  | 1.2,1.5,1.8,<br>2.5,2.8,3.0,<br>3.3V | ±2%     | 71dB@1KHz  | 70μA       | 300mA      | SC70-5 SOT23-5<br>SOT23-3 DFN1X1-4L      | Battery-powered Equipment,<br>Portable Information<br>Appliances  | XC6219,<br>XC6209            |



## CMOS Type LDO Linear Regulator (CMOS型低压差线性稳压器) BL 系列

| Part No.      | Features                                                                   | VIN      | VOUT                                          | Accu.   | PSRR      | IQ   | IOUT(Max.) | Package                  | Application                                                | Reference |
|---------------|----------------------------------------------------------------------------|----------|-----------------------------------------------|---------|-----------|------|------------|--------------------------|------------------------------------------------------------|-----------|
| <b>BL9162</b> | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 1.6~5.5V | 1.0~4.0V                                      | ±2%     | 83dB@1KHz | 45μA | 300mA      | SOT23-5 SC70-5 DFN1X1-4L | Battery-powered Equipment, Portable Information Appliances | NCP114    |
| <b>BL9165</b> | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 1.8~5.5V | 1.0~4.0V                                      | ±2%     | 83dB@1KHz | 45μA | 500mA      | SOT23-5 SC70-5 DFN1X1-4L | Battery-powered Equipment, Portable Information Appliances |           |
| <b>BL9193</b> | Low Dropout Voltage, Low Noise, High PSRR, Fast Response, Output Discharge | 2.0~6.0V | 1.2,1.5,1.8,2.5,2.8,3.0,3.3V<br>ADJ(1.8~3.6V) | ±2%/±1% | 78dB@1KHz | 90μA | 300mA      | SOT23-5 SC70-5           | Battery-powered Equipment, Portable Information Appliances | RT9193    |

## CMOS Type LDO Linear Regulator (CMOS型低压差线性稳压器) ME 系列

| Part No.        | Features                                                                        | VIN       | VOUT              | Accu. | PSRR      | IQ    | IOUT(Max.) | Package                                     |
|-----------------|---------------------------------------------------------------------------------|-----------|-------------------|-------|-----------|-------|------------|---------------------------------------------|
| <b>ME6206A</b>  | Low Power Consumption, High Accuracy, Low Dropout Voltage                       | Max. 6.5V | 1.5~5.0V          | ±1%   | 50dB@1KHz | 6μA   | 300mA      | SOT23-3 SOT89-3 SOT23 TO92                  |
| <b>ME6206B</b>  | Low Power Consumption, High PSRR, Low Dropout Voltage                           | Max. 6.5V | 1.6~5.0V          | ±2%   | 65dB@1KHz | 7μA   | 250mA      | SOT23                                       |
| <b>ME6301</b>   | Low Noise, High PSRR, High Accuracy, Low Dropout Voltage                        | Max. 6.5V | 1.2~5.0V          | ±1%   | 98dB@1KHz | 18μA  | 250mA      | FBP1×1-4L SOT23-5                           |
| <b>ME6301-N</b> | Low Noise, High PSRR, High Accuracy, Low Dropout Voltage                        | Max. 6.5V | 1.2~5.0V          | ±1%   | 98dB@1KHz | 18μA  | 250mA      | SOT23-5                                     |
| <b>ME6213</b>   | Low Power Consumption, Low Dropout Voltage                                      | Max. 6.5V | 1.2~5.0V          | ±2%   | 50dB@1KHz | 7.5μA | 300mA      | SOT23-5 DFN2×2-6L                           |
| <b>ME6216</b>   | Low Power Consumption, High Accuracy, Low Dropout Voltage                       | Max. 6.5V | 1.0~5.0V          | ±1%   | 50dB@1KHz | 6μA   | 300mA      | SOT23-3 SOT89-3 SOT23 TO92 DFN2×2-3L        |
| <b>ME6219</b>   | Low Noise, Low Dropout Voltage                                                  | Max. 6.5V | 1.2~5.0V          | ±2%   | 62dB@1KHz | 65μA  | 300mA      | SOT23-5 SOT23-3 SOT89-3 SOT89-5             |
| <b>ME6226</b>   | Low Power Consumption, High speed, High Accuracy, Low Dropout Voltage           | Max. 6.5V | 1.0~3.6V          | ±1%   | 40dB@1KHz | 0.6μA | 300mA      | SOT23-5                                     |
| <b>ME6230</b>   | Low Power Consumption, High PSRR, High Accuracy, Low Dropout Voltage            | Max. 6.5V | 1.2~5.0V          | ±1%   | 70dB@1KHz | 1.8μA | 400mA      | SOT23-3 SOT23-5 SOT89-3 FBP1×1-4L DFN1×1-4L |
| <b>ME6232</b>   | Low Power Consumption, High PSRR, High Accuracy, Low Dropout Voltage            | Max. 6.5V | 1.5~5.0V          | ±1%   | 65dB@1KHz | 1.4μA | 400mA      | SOT23-3 SOT89-3 SOT23-5 FBP1×1-4L DFN1×1-4L |
| <b>ME6330</b>   | Low Power Consumption, High PSRR, Low Dropout Voltage                           | Max. 6.5V | 1.5~5.0V          | ±2%   | 65dB@1KHz | 4μA   | 400mA      | SOT23-5 FBP1×1-4L DFN1×1-4L                 |
| <b>ME6306</b>   | Low Noise, Low Power Consumption, High PSRR, High Accuracy, Low Dropout Voltage | Max. 6.5V | 1.5~5.0V          | ±1%   | 75dB@1KHz | 10μA  | 400mA      | SOT23-5 DFN1×1-4L                           |
| <b>ME6322</b>   | Low Power Consumption, High PSRR, High Accuracy, Low Dropout Voltage            | Max. 6.5V | ADJ<br>(0.8~5.0V) | ±1%   | 65dB@1KHz | 10μA  | 400mA      | SOT23-5                                     |
| <b>ME6220</b>   | High Speed, High PSRR, High Accuracy, Low Dropout Voltage                       | Max. 6.5V | 0.8~5.0V          | ±1%   | 70dB@1KHz | 80μA  | 450mA      | FBP1×1-4L                                   |



# CMOS Type LDO Linear Regulator (CMOS型低压差线性稳压器) ME 系列

| Part No. | Features                                                                               | VIN       | VOUT                          | Accu.   | PSRR      | IQ    | IOUT(Max.) | Package                                                                       |
|----------|----------------------------------------------------------------------------------------|-----------|-------------------------------|---------|-----------|-------|------------|-------------------------------------------------------------------------------|
| ME6212   | High Speed, High PSRR,<br>Low Dropout Voltage                                          | Max. 6.5V | 1.2~5.0V                      | ±2%     | 65dB@1KHz | 50μA  | 350mA      | SOT23-5                                                                       |
| ME6211   | High PSRR, High Accuracy,<br>Low Dropout Voltage                                       | Max. 6.5V | 0.8~5.0V                      | ±1%     | 70dB@1KHz | 30μA  | 500mA      | SOT23-3 SOT23-5<br>SOT353 SOT343R<br>SOT89-3 FBP1×1-4L<br>DFN1×1-4L DFN2×2-6L |
| ME6251   | Reverse Current Protection, High Accuracy,<br>Low Dropout Voltage                      | Max. 6.5V | 1.0~5.0V                      | ±1%     | 60dB@1KHz | 40μA  | 500mA      | SOT23-5                                                                       |
| ME6307   | High PSRR, High Accuracy,<br>Low Dropout Voltage                                       | Max. 6.5V | 1.2~5.0V                      | ±1%     | 70dB@1KHz | 50μA  | 800mA      | SOT23-5 SOT89-5 SOT89-3                                                       |
| ME6218   | Low Output Voltage, High Accuracy                                                      | Max. 6.5V | 0.4, 0.55,<br>0.6, 0.75, 0.8V | ±1%     | 60dB@1KHz | 45μA  | 250mA      | SOT23-5 FBP1×1-4L                                                             |
| ME6207   | High PSRR, High Accuracy,<br>Low Dropout Voltage                                       | Max. 6.5V | 1.8~5.0V                      | ±1%     | 65dB@1KHz | 80μA  | 800mA      | SOT23-5 SOT89-5 SOT89-3                                                       |
| ME6217   | High PSRR, High Accuracy,<br>Low Dropout Voltage                                       | Max. 6.5V | 1.5~5.6V                      | ±1%     | 65dB@1KHz | 100μA | 800mA      | SOT23-5 SOT89-5 SOT89-3                                                       |
| ME6401   | Dual Channel, High Speed, High PSRR,<br>High Accuracy, Low Dropout Voltage             | Max. 6.5V | 1.2~5.0V                      | ±1%     | 70dB@1KHz | 90μA  | 300mA      | SOT23-6                                                                       |
| MEQ6310  | AEC-Q100 Grade1, High Accuracy,<br>Low Dropout Voltage                                 | Max. 6.0V | 2.6~6.0V                      | ±1%     | 60dB@1KHz | 85μA  | 300mA      | SOT23-5                                                                       |
| ME6241   | Reverse Current Protection, Charge Pump,<br>High Accuracy, Low Dropout Voltage         | Max. 6.0V | 1.2~5.0V                      | ±1%     | 58dB@1KHz | 400μA | 1A         | QFN3×3-8L                                                                     |
| ME6208   | Low Power Consumption, High Accuracy                                                   | Max. 18V  | 2.0~5.0V                      | ±1%/±2% | 50dB@1KHz | 3μA   | 150mA      | TO92 SOT89-3 SOT23-3                                                          |
| ME6209   | Low Power Consumption, High Accuracy,<br>Low Dropout Voltage                           | Max. 18V  | 3.0~5.0V                      | ±1%/±2% | 50dB@1KHz | 3μA   | 250mA      | TO92 SOT89-3 SOT23-3                                                          |
| ME6249   | Low Power Consumption, High Accuracy,<br>Low Dropout Voltage                           | Max. 18V  | 3.0~5.0V                      | ±1%     | 50dB@1KHz | 3μA   | 250mA      | SOT89-3 SOT23-3                                                               |
| ME6214   | Low Power Consumption,<br>Low Dropout Voltage                                          | Max. 18V  | 1.5~5.0V                      | ±2%     | 40dB@1KHz | 0.7μA | 300mA      | SOT89-3 SOT23-3<br>SOT23-5 DFN2×2-6L                                          |
| ME6215   | Low Power Consumption,<br>Low Dropout Voltage                                          | Max. 18V  | 1.5~5.0V                      | ±2%     | 50dB@1KHz | 6μA   | 300mA      | SOT23-5                                                                       |
| ME6119   | High Speed, Low Dropout Voltage                                                        | Max. 18V  | 1.2~5.0V                      | ±2%     | 60dB@1KHz | 65μA  | 400mA      | SOT23-5 SOT23-3 SOT89-3                                                       |
| ME6221   | Low Dropout Voltage                                                                    | Max. 18V  | ADJ<br>(1.25~5.0V)            | ±2%     | 60dB@1KHz | 45μA  | 400mA      | SOT23-5                                                                       |
| ME6222   | Low Dropout Voltage                                                                    | Max. 18V  | ADJ<br>(0.8~5.0V)             | ±2%     | 60dB@1KHz | 45μA  | 400mA      | SOT23-5                                                                       |
| ME6210   | Low Power Consumption,<br>Low Dropout Voltage                                          | Max. 18V  | 1.5~5.0V                      | ±2%     | 50dB@1KHz | 1.5μA | 500mA      | SOT89-3 SOT23-3                                                               |
| ME6231   | Low Power Consumption, High Speed,<br>High PSRR, High Accuracy,<br>Low Dropout Voltage | Max. 18V  | 1.6~5.0V                      | ±1%     | 65dB@1KHz | 1.8μA | 500mA      | SOT89-3 SOT23-3 SOT23-5<br>DFN1.2×1.6-4L<br>SOT223 SOP8                       |



## CMOS Type LDO Linear Regulator (CMOS型低压差线性稳压器) ME 系列

| Part No. | Features                                           | VIN      | VOUT      | Accu.   | PSRR      | IQ    | IOUT(Max.) | Package                                   |
|----------|----------------------------------------------------|----------|-----------|---------|-----------|-------|------------|-------------------------------------------|
| ME6118   | High PSRR, Low Dropout Voltage                     | Max. 18V | 0.75~5.0V | ±2%     | 70dB@1KHz | 50μA  | 1A         | SOT23-3 SOT223 TO252<br>SOT89-3 DFN2×2-6L |
| ME6262   | High PSRR, High Accuracy,<br>Low Dropout Voltage   | Max. 18V | 1.2~5.0V  | ±1%     | 80dB@1KHz | 70μA  | 1A         | ESOP8                                     |
| ME6228   | Low Power Consumption, High Accuracy               | Max. 30V | 1.5~12V   | ±1%/±2% | 40dB@1KHz | 0.8μA | 150mA      | SOT23-3 SOT89-3 TO92                      |
| ME6268   | Low Power Consumption,<br>High PSRR, High Accuracy | Max. 30V | 1.2~12V   | ±1%     | 65dB@1KHz | 3μA   | 150mA      | SOT23-3 SOT89-3                           |
| ME6239   | Low Power Consumption, High Accuracy               | Max. 30V | 1.5~12V   | ±1%     | 50dB@1KHz | 1.5μA | 250mA      | SOT23-3 SOT89-3                           |
| ME6203   | Low Power Consumption, High Accuracy               | Max. 40V | 1.8~12V   | ±1%/±2% | 50dB@1KHz | 3μA   | 100mA      | TO92 SOT89-3 SOT23-3                      |
| ME6233   | Low Power Consumption, High Accuracy               | Max. 40V | 1.6~12V   | ±1%     | 60dB@1KHz | 3.5μA | 100mA      | SOT23-5 SOT23-3<br>SOT89-3 DFN2×3-8L      |
| ME6234   | Low Power Consumption, High Accuracy               | Max. 40V | 3.0~5.0V  | ±1%     | 60dB@1KHz | 2.5μA | 100mA      | SOT23-3 SOT89-3                           |
| ME6263   | Low Power Consumption, High Accuracy               | Max. 40V | 3.0~5.0V  | ±1%     | 60dB@1KHz | 1μA   | 150mA      | SOT23-5                                   |
| ME6267   | Low Power Consumption, High PSRR,<br>High Accuracy | Max. 40V | 1.5~12V   | ±1%     | 76dB@1KHz | 4μA   | 150mA      | SOT23-3 SOT23-5                           |
| ME6261   | Low Power Consumption, High PSRR,<br>High Accuracy | Max. 60V | 1.2~12V   | ±1%     | 70dB@1KHz | 2.5μA | 100mA      | SOT23-3 SOT89-3                           |

## Bipolar Type LDO Linear Regulator (双极型低压差线性稳压器) BL 系列

| Part No. | Features                                    | VIN      | VOUT                                       | Accu.   | IQ      | IOUT (Max.) | Package                          | Application                         | Reference |
|----------|---------------------------------------------|----------|--------------------------------------------|---------|---------|-------------|----------------------------------|-------------------------------------|-----------|
| BL1117   | Bipolar, Low Dropout Voltage                | Max. 18V | 1.2,1.5,1.8,2.5,3.3,5,12V<br>ADJ(1.25~12V) | ±2%/±1% | 2mA     | 1A          | SOT223 TO252                     | PC Motherboard,<br>Monitor, TV, STB | LM1117    |
| BL1117C  | Bipolar, Low Dropout Voltage                | Max. 15V | 1.2,1.8,2.5,3.3,5,12V<br>ADJ(1.25~12V)     | ±2%/±1% | 2mA     | 1A          | SOT223 SOT89-3                   | PC Motherboard,<br>Monitor, TV, STB | LM1117    |
| BL1118   | Dual Channels, Bipolar, Low Dropout Voltage | Max. 12V | 1.2,1.8,2.5,3.3,5V<br>ADJ(1.25~12V)        | ±2%     | 2mA x 2 | 1A x 2      | ESOP8                            | PC Motherboard,<br>Monitor, TV, STB |           |
| BL1084   | Bipolar, Low Dropout Voltage                | Max. 15V | 1.8,2.5,3.3,5V<br>ADJ(1.25~13.8V)          | ±2%     | 5mA     | 5A          | TO252 TO263-2<br>TO263-3 TO220-3 | PC Motherboard,<br>Monitor, TV, STB | LM1084    |
| BL1085   | Bipolar, Low Dropout Voltage                | Max. 15V | 1.8,2.5,3.3,5V<br>ADJ(1.25~13.8V)          | ±2%     | 5mA     | 3A          | TO252 TO263-2<br>TO263-3 TO220-3 | PC Motherboard,<br>Monitor, TV, STB | LM1085    |



## Bipolar Type LDO Linear Regulator (双极型低压差线性稳压器) ME 系列

| Part No. | Features                                 | VIN      | VOUT    | Accu. | IQ    | IOUT (Max.) | Package              |
|----------|------------------------------------------|----------|---------|-------|-------|-------------|----------------------|
| ME1117   | Bipolar, High Speed, Low Dropout Voltage | Max. 20V | 1.2~15V | ±2%   | 3.3mA | 1A          | SOT223 TO252 SOT89-3 |
| MET1117  | Bipolar, High Speed, Low Dropout Voltage | Max. 20V | 1.2~15V | ±2%   | 3.5mA | 700mA       | SOT223 TO252         |
| ME78L05  | Bipolar, High Speed                      | Max. 30V | 5.0V    | ±5%   | 3.5mA | 100mA       | SOT89-3              |
| ME78M05  | Bipolar, High Speed                      | Max. 35V | 5.0V    | ±5%   | 3.5mA | 500mA       | TO252                |
| ME7805   | Bipolar, High Speed                      | Max. 35V | 5.0V    | ±5%   | 3.5mA | 1.2A        | TO220                |
| MEB78L05 | Bipolar, High Accuracy, High Speed       | Max. 36V | 5.0V    | ±1%   | 3mA   | 100mA       | SOT89-3 TO92         |
| MEB78M05 | Bipolar, High Accuracy, High Speed       | Max. 40V | 5.0V    | ±1%   | 3mA   | 500mA       | TO252                |

## Li-ion Battery Charger (锂电池充电芯片) BL 系列

| Part No. | Features                                                                                                                              | VIN                   | Series Cells | Max. Charger | Charger Type        | Output Accu.               | Package             | Application      | Reference |
|----------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|--------------|---------------------|----------------------------|---------------------|------------------|-----------|
| BL8573   | 500mA/1.5A Linear Li-Ion Battery Charger                                                                                              | 4.25~6.0V             | 1            | 500mA/1.5A   | Linear              | 4.2V±1% 4.35V±1%           | SOT23-6 ESOP8       | 单节锂电供电设备         |           |
| BL8574   | 500mA Linear Li-Ion Battery Charger                                                                                                   | 4.25~6.0V             | 1            | 500mA        | Linear              | 4.2V±1%                    | SOT23-5             | 单节锂电供电设备         |           |
| BL8576   | 1A Linear Li-Ion Battery Charger                                                                                                      | 4.25~6.0V             | 1            | 1A           | Linear              | 4.2V±1%                    | ESOP8               | 单节锂电供电设备         |           |
| BL4054B  | Temperature Regulation, Trickle Charge, C/10 Charge Termination, USB Compliant                                                        | 4.25~6.5V<br>Max. 10V | 1            | 800mA        | Linear              | 4.2V±1% 4.3V±1%<br>4.4V±1% | SOT23-5<br>TSOT23-5 | 单节锂电供电设备         | LTC4054   |
| BL4056C  | 1A Li-Ion Battery Linear Charger                                                                                                      | 4.2~9.0V              | 1            | 1A           | Linear              | 4.2V±1% 4.35V±1%           | ESOP8               | 单节锂电供电设备         |           |
| BL6028   | 750mA Single-Chip Li-Ion and Li-Pol Charge Management IC With Thermal Regulation                                                      | 4.35~6.5V             | 1            | 750mA        | Linear              | 4.2V±1%                    | DFN3x3-10L          | 单节锂电供电设备         |           |
| BL6113C  | Fully Integrated 3A Single-cell Lithium Battery Charge Management IC With I <sup>2</sup> C And NVDC Path Management                   | 3.9~13.5V             | 1            | 3A           | NVDC/Switch         | 4.2V±0.5%                  | QFN4x4-24L          | 单节锂电供电设备<br>智能手机 |           |
| BL6113D  | I <sup>2</sup> C Controlled 3-A Single Cell Battery Charger For High Input Voltage And Narrow Voltage DC (NVDC) Power Path Management | 3.9~13.5V             | 1            | 3A           | NVDC/Switch         | 4.2V±0.5%                  | QFN4x4-24L          | 单节锂电供电设备<br>智能手机 |           |
| BL6115   | I <sup>2</sup> C Controlled Single Cell 5A Fast Charger for High Input Voltage and Adjustable Voltage USB On-the-Go Boost Mode        | 3.9~14V               | 1            | 5A           | OTG/NVDC/<br>Switch | 4.2V±0.5%<br>4.35V±0.5%    | QFN4x4-24L          | 单节锂电供电设备<br>智能手机 |           |



# Li-ion Battery Charger (锂电池充电芯片) ME 系列

| Part No. | Features                              | VIN       | Series Cells | Max. Charger | Charger Type | Output Accu.                                              | Package                                                   |
|----------|---------------------------------------|-----------|--------------|--------------|--------------|-----------------------------------------------------------|-----------------------------------------------------------|
| ME4054-N | 4.0-6.5V/500mA 带防倒灌，<br>单节锂电线性充电      | 4.0~6.5V  | 1            | 500mA        | Linear       | 4.2V±1%                                                   | SOT23-5                                                   |
| ME4074   | 4.0-6.5V/800mA 带防倒灌，<br>单节锂电线性充电      | 4.0~6.5V  | 1            | 800mA        | Linear       | 4.2V±1%                                                   | SOT23-5 DFN1.6×1.6-6L                                     |
| ME4075   | 4.0-6.5V/800mA 磷酸铁锂电池线性充电             | 4.0~6.5V  | 1            | 800mA        | Linear       | 3.6V±1%                                                   | SOT23-5                                                   |
| ME4056   | 4.0-8.0V/1.0A 单节锂电线性充电                | 4.0~8.0V  | 1            | 1A           | Linear       | 4.2V±1% 4.34V±1%                                          | ESOP8                                                     |
| ME4056-N | 4.0-7.0V/0.9A 单节锂电线性充电                | 4.0~7.0V  | 1            | 900mA        | Linear       | 4.2V±1% 4.34V±1%                                          | ESOP8                                                     |
| ME4057   | 4.7-6.5V/1A 带防倒灌、防反接，<br>单节锂电线性充电     | 4.7~6.5V  | 1            | 1A           | Linear       | 4.2V±1% 4.34V±1%<br>4.4V±1%                               | ESOP8                                                     |
| ME4101   | 4.0-9V/0.8A 超低静态功耗，<br>用于TWS耳机充电升压二合一 | 4.0~9.0V  | 1            | 800mA        | Linear       | 4.2V±1%                                                   | ESOP8                                                     |
| ME4102   | 4.7-6V/0.8A 超低静态功耗，<br>用于TWS耳机充电升压二合一 | 4.7~6.0V  | 1            | 800mA        | Linear       | 4.2V±1%                                                   | SOP8                                                      |
| ME4051   | 4.5-9V/0.1A 高充电电流精度，小电流充电             | 4.5~9.0V  | 1            | 100mA        | Linear       | 4.2V±1%                                                   | DFN2×2-6L                                                 |
| ME4064   | 4.0-6V/800mA 带防反接、防倒灌，<br>单节锂电线性充电    | 4.0~6.0V  | 1            | 800mA        | Linear       | 4.2V±1% 4.34V±1%                                          | SOT23-5 DFN2×2-6L                                         |
| ME4064-N | 4.0-9V/800mA 带防反接、防倒灌，<br>单节锂电线性充电    | 4.0~9.0V  | 1            | 800mA        | Linear       | 4.2V±1% 4.34V±1%                                          | SOT23-5 DFN2×2-6L                                         |
| ME4055   | 4.0-6.5V/800mA 带防反接、防倒灌，<br>单节锂电线性充电  | 4.0~6.5V  | 1            | 800mA        | Linear       | 4.2V±1%                                                   | SOT23-6 SOT23-5                                           |
| ME4055-N | 4.0-9V/800mA 带防反接、防倒灌，<br>单节锂电线性充电    | 4.0~9.0V  | 1            | 800mA        | Linear       | 4.2V±1% 4.34V±1%                                          | SOT23-6                                                   |
| ME4057-N | 4.25-9V/1A 带防倒灌、防反接，<br>单节锂电线性充电      | 4.25~9.0V | 1            | 1A           | Linear       | 4.2V±1% 4.35V±1%<br>4.4V±1%                               | ESOP8 DFN2×2-8L                                           |
| ME4059-N | 4.7-5.5V/1.5A 带防倒灌，<br>单节锂电池开关型充电     | 4.7~5.5V  | 1            | 1.5A         | Switch       | 4.2V±1% 4.34V±1%                                          | ESOP8                                                     |
| ME4058   | 6V-20V/2A 单节、多节锂电开关型充电                | 6.0~20V   | 1/2/3        | 2A           | Switch       | 4.2V±1% 4.35V±1%<br>8.4V±1% 8.7V±1%<br>12.6V±1% 13.05V±1% | SOP8                                                      |
| ME4069   | 4.7-5.5V/1.8A 单节锂电开关型充电               | 4.7~5.5V  | 1            | 1.8A         | Switch       | 4.2V±1% 4.35V±1%                                          | ESOP8                                                     |
| ME4052   | 8.9-15V/1A 双节锂电开关型充电                  | 8.9~15V   | 2            | 1A           | Linear       | 8.4V±1%                                                   | ESOP8                                                     |
| ME4084   | 24V 耐压 600mA 单节锂电池线性充电                | 4.7~24V   | 1            | 600mA        | Linear       | 4.2V±1%                                                   | SOT23-5 SOT23-6 ESOP8<br>FBP2×2-6L DFN2×2-8L<br>DFN3×3-8L |
| ME4085   | 24V 耐压 200mA，充电截止电流可调，<br>单节锂电池线性充电   | 4.7~24V   | 1            | 200mA        | Linear       | 4.2V±1%                                                   | DFN2×2-8L                                                 |
| ME4086A  | 4.7-16V 耐压 2A 单节锂电开关型充电               | 4.7~16V   | 1            | 2A           | Switch       | 4.2V±1%                                                   | ESOP8                                                     |
| ME4086E  | 14-22V 耐压 1.5A 三节锂电开关型充电              | 14~22V    | 3            | 1.5A         | Switch       | 12.6V±1%                                                  | ESOP8                                                     |
| ME4094   | 36V 耐压 1A 单节锂电池线性充电                   | 4.7~36V   | 1            | 1A           | Linear       | 4.2V±1%                                                   | SOT23-5 SOT23-6 ESOP8<br>FBP2×2-6L DFN2×2-8L              |



## Li-ion Battery Protection (锂电池保护芯片) ME 系列

| Part No. | V <sub>CUn</sub> | V <sub>CRn</sub> | V <sub>DLn</sub> | V <sub>DRn</sub> | V <sub>CIP</sub> | I <sub>DD</sub> | Package         | Application   |
|----------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|---------------|
| ME4210   | 4.15±0.025V      | 4.0±0.05V        | 2.40±0.05V       | 2.80±0.05V       | -200~-70mV       | 3.0μA           | SOT23-5 SOT23-6 | 单节集成 MOS 锂电保护 |
| ME4211   | 4.3±0.05V        | 4.1±0.05V        | 2.40±0.1V        | 3.00±0.1V        | -200~-70mV       | 3.0μA           | SOT23-6 TSSOP8  | 单节集成 MOS 锂电保护 |
| ME4212   | 4.28±0.025V      | 4.08±0.05V       | 2.90±0.08V       | 3.00±0.1V        | -200±30mV        | 5.0μA           | SOT23-6         | 2 节锂电保护       |
|          | 4.35±0.025V      | 4.15±0.05V       | 2.30±0.08V       | 3.00±0.1V        | -200±30mV        |                 |                 |               |
|          | 4.28±0.025V      | 4.08±0.05V       | 2.25±0.08V       | 2.95±0.1V        | -200±30mV        |                 |                 |               |
|          | 4.28±0.025V      | 4.08±0.05V       | 2.80±0.08V       | 3.00±0.1V        | -200±30mV        |                 |                 |               |
|          | 4.25±0.025V      | 4.05±0.05V       | 2.50±0.08V       | 3.00±0.1V        | -100±30mV        |                 |                 |               |
|          | 4.25±0.025V      | 4.05±0.05V       | 2.80±0.08V       | 3.00±0.1V        | -100±30mV        |                 |                 |               |
|          | 4.25±0.025V      | 4.05±0.05V       | 2.50±0.08V       | 3.00±0.1V        | -200±30mV        |                 |                 |               |
|          | 4.225±0.025V     | 3.98±0.05V       | 2.79±0.08V       | 3.00±0.1V        | -100±30mV        |                 |                 |               |
| ME4222   | 4.30±0.025V      | 4.15±0.05V       | 2.30±0.08V       | 3.00±0.1V        | -200±30mV        | 5.0μA           | SOT23-6         | 2 节磷酸铁锂电池保护   |
|          | 3.65±0.025V      | 3.45±0.05V       | 2.00±0.08V       | 2.50±0.1V        | -200±30mV        |                 |                 |               |
| ME4222   | 3.80±0.025V      | 3.70±0.05V       | 2.20±0.08V       | 2.50±0.1V        | -200±30mV        | 5.0μA           | SOT23-6         | 2 节磷酸铁锂电池保护   |
|          | 3.65±0.025V      | 3.45±0.05V       | 2.00±0.08V       | 2.50±0.1V        | -200±30mV        |                 |                 |               |
| ME4214   | 4.25±0.025V      | 4.15±0.05V       | 2.70±0.08V       | 3.00±0.1V        | -200±30mV        | 7.0μA           | MSOP10          | 1/2 节带级联锂电保护  |

## LED Backlight/Lighting/Screen Driver (LED 背光、照明驱动电路、显示驱动) BL 系列

| Part No. | MODE   | V <sub>IN</sub> | I <sub>OUT</sub> | Accu. | FOSC | V <sub>FB</sub> | Package             | Application    |
|----------|--------|-----------------|------------------|-------|------|-----------------|---------------------|----------------|
| BLL1912  | Linear | 2.0~10V         | 1~300mA          | ±2%   | -    | 1.2V            | SOT23-3 SOT89-3     | LED Luminaires |
| BLL1970  | Linear | 4.5~500V        | Max. 100mA       | ±4%   | -    | 0.6V            | ESOP8 SOT89-3 TO252 | LED Luminaires |

## LED Backlight/Lighting/Screen Driver (LED 背光、照明驱动电路、显示驱动) ME 系列

| Part No.   | MODE      | V <sub>IN</sub> | I <sub>OUT</sub> | Accu. | FOSC   | V <sub>FB</sub>        | Package                  | Application       |
|------------|-----------|-----------------|------------------|-------|--------|------------------------|--------------------------|-------------------|
| MEL71XX    | Linear    | 2.7~6.0V        | 260~350mA        | ±10%  | -      | -                      | SOT89-3 SOT23-3          | LED 照明            |
| MEL71XX-N  | Linear    | 2.7~5.5V        | 100~400mA        | ±5%   | -      | -                      | SOT89-3 SOT23-3          | LED 照明            |
| MEL7136    | Linear    | 2.7~18V         | Max. 1A          | ±5%   | -      | V <sub>CS</sub> =100mV | SOT89-5 SOT23-5<br>ESOP8 | LED 照明            |
| ME2215     | PFM/Buck  | 6.0~36V         | Max. 1A          | ±5%   | 1MHz   | 100±5mV                | SOT89-5                  | LED 照明            |
| ME2206-N   | PWM/Boost | 0.9~3.5V        | Max. 1A          | ±10%  | 900KHz | 100±10mV               | SOT23-6                  | LED 照明            |
| ME2209     | PWM/Boost | 0.9~3.5V        | Max. 1A          | ±10%  | 900KHz | 100±10mV               | SOT23-6                  | LED 照明            |
| ME2212     | PWM/Boost | 2.5~5.5V        | Max. 260mA       | ±5%   | 1MHz   | 200±10mV               | SOT23-6                  | 背光 10 串 - 3x13LED |
| ME2214     | PWM/Boost | 2.5~5.5V        | Max. 260mA       | ±5%   | 1MHz   | 200±10mV               | SOT23-6                  | 背光 6 串 - 3x13LED  |
| ME2216     | PWM/Boost | 2.5~5.5V        | Max. 260mA       | ±5%   | 1MHz   | 200±10mV               | SOT23-6                  | 背光 6x6 - 3x13LED  |
| MEQDS92630 | Linear    | 4.5~40V         | 10~150mA/channel | -     | -      | -                      | ETSSOP16                 | 三通道汽车尾灯 LED 驱动    |
| ME7610     | Linear    | 4.5~40V         | 10~450mA         | -     | -      | -                      | TSSOP14 MSOP8            | 单通道汽车尾灯 LED 驱动    |
| ME7612     | Linear    | 4.5~40V         | 10~450mA         | -     | -      | -                      | SOT23-5 TO263(7)         | 单通道汽车尾灯 LED 驱动    |



## Load Switch (精密限流负载开关) BL 系列

| Part No.      | Features                                     | VIN      | IQ    | Current Limit Threshold | Power switch On Resistance | Package            | Application   | Reference |
|---------------|----------------------------------------------|----------|-------|-------------------------|----------------------------|--------------------|---------------|-----------|
| <b>BL2554</b> | Adjustable USB Load Current Switch           | 2.6~5.5V | 150μA | Max. 1.3A               | 250mΩ                      | SOT23-5<br>SOT23-6 | STB, MID      | SY6280    |
| <b>BL2556</b> | 5V USB High Side Current Limited Load Switch | 2.7~5.5V | 50μA  | 2A                      | 70mΩ                       | SOT23-5            | USB Periphery |           |

## Load Switch (精密限流负载开关) ME 系列

| Part No.      | Features   | VIN      | IQ   | Current Limit Threshold | Power switch On Resistance | Package         |
|---------------|------------|----------|------|-------------------------|----------------------------|-----------------|
| <b>ME1501</b> | EN 低有效     | 2.7~5.5V | 50μA | 2.1A                    | 70mΩ                       | SOT23-5 SOT23-3 |
| <b>ME1502</b> | EN 高 / 低有效 | 2.7~5.5V | 50μA | Adjustable              | 70mΩ                       | SOT23-5 SOT23-6 |

## Three-terminal Positive Regulator (三端稳压器) BL 系列

| Part No.        | Features                                  | VIN      | VOUT | Accu. | IQ   | IOUT (Max.) | Package           | Application    | Reference |
|-----------------|-------------------------------------------|----------|------|-------|------|-------------|-------------------|----------------|-----------|
| <b>BL78L05D</b> | Three-terminal Positive Voltage Regulator | Max. 42V | 5.0V | ±2%   | 2mA  | 100mA       | SOT89-3 SOP8 TO92 | 家电, 电表         |           |
| <b>BL78L05G</b> | Three-terminal Positive Voltage Regulator | Max. 42V | 5.0V | ±2%   | 2mA  | 100mA       | SOT89-3           | 工业级(125°C), 车载 |           |
| <b>BL317B</b>   | High Current Adjustable Voltage Regulator | Max. 40V | ADJ  | ±4%   | 46μA | 1.5A        | TO220 TO252 TO263 | STB            | LM317     |

## Voltage Detector/Reset IC (电压检测器/复位IC) BL 系列

| Part No.      | Output Type                                                              | VIN      | VDET               | Accu. | IQ    | Output Delay Time | Package                                    | Application                                                                       | Reference                  |
|---------------|--------------------------------------------------------------------------|----------|--------------------|-------|-------|-------------------|--------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|
| <b>BL8504</b> | N-channel Open-drain(Active Low)<br>Hysteresis 4%                        | 0.7~10V  | 0.9~6.0V 0.1V step | ±3%   | 1μA   | -                 | SOT23-3                                    | Power monitor, Logic Circuit<br>Reset, Battery Checker,<br>Power Failure Detector |                            |
| <b>BL8506</b> | CMOS(Active Low) or N-channel<br>Open-drain(Active Low)<br>Hysteresis 4% | 0.7~10V  | 0.9~6.0V 0.1V step | ±2%   | 1μA   | -                 | SOT23 SOT23-3 SC82<br>SOT23-5 SOT89-3 TO92 | Power monitor, Logic Circuit<br>Reset, Battery Checker,<br>Power Failure Detector | R3111,<br>XC61C,<br>HT70XX |
| <b>BL8518</b> | CMOS(Active Low) or N-channel<br>Open-drain(Active Low)                  | 1.2~6.0V | 2.63, 2.93V        | ±2%   | 4.5μA | 200ms             | SOT23                                      | Power monitor, Logic Circuit<br>Reset, Battery Checker,<br>Power Failure Detector | MAX809                     |



## Voltage Detector/Reset IC (电压检测器/复位IC) ME 系列

| Part No. | Output Type | VIN      | VDET     | Accu. | IQ    | Output Delay Time | Package                                                       |
|----------|-------------|----------|----------|-------|-------|-------------------|---------------------------------------------------------------|
| ME2803   | CMOS        | 0.7~7.0V | 1.0~6.5V | ±1%   | 0.7μA | N/A               | SOT23-3                                                       |
| ME2804   | NMOS        | 0.7~7.0V | 1.0~6.5V | ±1%   | 0.7μA | N/A               | SOT23-3                                                       |
| ME2805   | CMOS        | 0.7~7.0V | 1.0~6.5V | ±1%   | 0.9μA | 200ms/50ms/20ms   | SOT23 SOT23-3 SOT23-5<br>DFN1.2×1.6-4L DFN2.0×2.0-6L          |
| ME2806   | NMOS        | 0.7~7.0V | 1.0~6.5V | ±1%   | 0.9μA | 200ms/50ms/20ms   | SOT23 SOT23-3 SOT23-5<br>DFN1.2×1.6-4L DFN2.0×2.0-6L          |
| ME2805-N | CMOS        | 0.7~6.0V | 1.0~5.5V | ±1%   | 0.9μA | 200ms/50ms        | SOT23                                                         |
| ME2806-N | NMOS        | 0.7~6.0V | 1.0~5.5V | ±1%   | 0.9μA | 200ms/50ms        | SOT23                                                         |
| ME2807   | CMOS        | 1.5~18V  | 2.0~7.0V | ±1%   | 1.8μA | N/A               | TO92 SOT23 SOT23-3 SOT89-3<br>SOT23-5 DFN1.2×1.6-4L FBP1×1-4L |
| ME2808   | NMOS        | 1.5~18V  | 2.0~7.0V | ±1%   | 1.8μA | N/A               | TO92 SOT23 SOT23-3 SOT89-3<br>SOT23-5 DFN1.2×1.6-4L FBP1×1-4L |
| ME2815   | CMOS        | 0.7~6.0V | 1.0~5.0V | ±1%   | 0.5μA | Adjustable        | SOT23-5                                                       |
| ME2816   | NMOS        | 0.7~6.0V | 1.0~5.0V | ±1%   | 0.5μA | Adjustable        | SOT23-5                                                       |

## DDR Memory Power IC (DDR存储器电源IC) ME 系列

| Part No. | VIN (Max) | VCNTL (Max) | Output Source Current (Max) | Output Sink Current (Max) | VOUT             | VOS   | IQ    | Vdrop @1A | Key Features           | DDR Memory Type        | Package             |
|----------|-----------|-------------|-----------------------------|---------------------------|------------------|-------|-------|-----------|------------------------|------------------------|---------------------|
| ME6404   | 6V        | N           | 3A                          | 3A                        | 1.25V/0.9V       | ±20mV | 6.5mA | 175mV     | EN/OCP/SCP/OTP         | DDR1, DDR2             | SOP8                |
| ME6403   | 5.5V      | 5.5V        | 3A                          | N                         | 0.8V~(VIN-VDROP) | N     | 1mA   | 77mV      | EN/POK/OCP/SCP/OTP/SST | DDR1, DDR2, DDR3, DDR4 | ESOP8<br>DFN3×3-10L |

\*EN: Enable Control    POK: Power-OK    OCP: Over Current Protection    SCP: Short Circuit Protection    OTP: Over Temperature Protection    SST: Soft Start

## Inverting-Negative Output (反相-输出负压) ME 系列

| Part No. | VIN     | VOUT        | IQ   | Eff. | Package   | Application |
|----------|---------|-------------|------|------|-----------|-------------|
| ME7660   | 2.5~10V | -2.5 ~ -10V | 40μA | 98%  | SOP8 DIP8 | LCD Display |



## AC/DC Converter (AC/DC转换器) BL 系列

### PSR 系列

| Part No. | Pout (Max.) | Drive Device | BVDSS | MODE | Standby Power | OVP | Package | Application                | Reference |
|----------|-------------|--------------|-------|------|---------------|-----|---------|----------------------------|-----------|
| BL8802B  | 10W         | MOSFET       | 1000V | PSR  | <75mW         | Y   | DIP7    | 智能电表, 户外监控, 高输入电压的 AC/DC方案 |           |
| BL8812B  | 10W         | MOSFET       | 650V  | PSR  | <75mW         | Y   | SOP7    | 充电器, 适配器, LED 驱动电源         | OB2500    |

### SSR 系列

| Part No. | Pout (Max.) | Drive Device    | MODE | Standby Power | Power on Soft-Start | OVP | Package | Application         | Reference     |
|----------|-------------|-----------------|------|---------------|---------------------|-----|---------|---------------------|---------------|
| BL8891B  | 15W         | MOSFET          | SSR  | <0.15W        | Y                   | Y   | DIP7    | 电源适配器, 机顶盒电源, 小家电电源 | OB2358,SP7625 |
| BL8851   | 60W         | External MOSFET | SSR  | <0.15W        | Y                   | Y   | SOT23-6 | 电源适配器, 机顶盒电源, 小家电电源 | OB2273        |

## AC/DC Converter (AC/DC转换器) ME 系列

### PSR 系列

| Part No. | Pout (85-264V) | Drive Device  | MODE (Flyback) | Standby Power | Freq   | Accu. CC/CV | OVP | Package    |
|----------|----------------|---------------|----------------|---------------|--------|-------------|-----|------------|
| ME8320-N | 50W            | External NMOS | PFM/QR         | ≤60mW         | 120KHz | 5%/5%       | Y   | SOT23-6    |
| ME8311   | 6W             | Internal NMOS | PFM            | ≤30mW         | 65KHz  | 5%/5%       | Y   | SOP8 SOP7  |
| ME8321-N | 6W             | Internal NMOS | PFM/QR         | ≤60mW         | 120KHz | 5%/5%       | Y   | SOP7       |
| ME8317   | 10W            | Internal NMOS | PFM            | ≤50mW         | 65KHz  | 5%/5%       | Y   | ESOP8 SOP7 |
| ME8327   | 15W            | Internal NMOS | PFM/QR         | ≤100mW        | 120KHz | 5%/5%       | Y   | SOP7       |
| ME8327-N | 15W            | Internal NMOS | PFM/QR         | ≤60mW         | 120KHz | 5%/5%       | Y   | SOP7       |
| ME8325-N | 15W            | Internal NMOS | PFM/QR         | ≤60mW         | 120KHz | 5%/5%       | Y   | DIP7       |
| ME8328   | 10W            | Internal NMOS | PFM/QR         | ≤30mW         | 120KHz | 5%/5%       | Y   | SOP7       |
| ME8329-N | 30W            | Internal NMOS | PFM/QR         | ≤60mW         | 120KHz | 5%/5%       | Y   | SOP7 DIP7  |



AC/DC Converter (AC/DC转换器) ME 系列  
SSR 系列

| Part No.    | Pout (85-264V) | Drive Device  | MODE    | Standby Power | Freq      | Accu. | OVP | Package           |
|-------------|----------------|---------------|---------|---------------|-----------|-------|-----|-------------------|
| ME8200-N    | 45W            | External NMOS | PWM     | ≤100mW        | 55~75KHz  | ±1%   | Y   | SOT23-6 DIP8 SOP8 |
| ME8206      | 100W           | External NMOS | PWM/QR  | ≤100mW        | 70KHz     | ±1%   | Y   | SOP8              |
| ME8125      | 4W             | Internal BJT  | PWM     | ≤100mW        | 60KHz     | ±1%   | Y   | SOP6              |
| ME8155      | 5W             | Internal BJT  | PWM     | ≤75mW         | 60KHz     | ±1%   | Y   | SOP6              |
| ME8115A/C/E | 12W            | Internal BJT  | PWM     | ≤100mW        | 60KHz     | ±1%   | Y   | DIP8 DIP7 SOP7    |
| ME8117      | 12W            | Internal BJT  | PWM     | ≤100mW        | 60KHz     | ±1%   | Y   | DIP8 DIP7         |
| ME8107A/B/C | 15W            | Internal NMOS | PWM     | ≤100mW        | 65KHz     | ±1%   | Y   | DIP8 DIP7         |
| ME8112      | 15W            | Internal NMOS | PWM     | ≤100mW        | 65KHz     | ±1%   | Y   | DIP7              |
| ME8115B/D/F | 15W            | Internal BJT  | PWM     | ≤100mW        | 60KHz     | ±1%   | Y   | DIP8 DIP7 SOP7    |
| ME8113      | 18W            | Internal NMOS | PWM     | ≤100mW        | 65KHz     | ±1%   | Y   | DIP7              |
| ME8103      | 18W            | Internal NMOS | PWM     | ≤100mW        | 65KHz     | ±1%   | Y   | SOP8              |
| ME8165      | 20W            | Internal BJT  | PWM     | ≤100mW        | 60KHz     | ±1%   | Y   | DIP7 DIP8 SOP8    |
| ME8116      | 20W            | External BJT  | PWM     | ≤100mW        | 60KHz     | ±1%   | Y   | ESOP8             |
| ME8123      | 36W            | Internal NMOS | PWM     | ≤100mW        | 65KHz     | ±1%   | Y   | DIP8              |
| ME8129      | 72W            | Internal NMOS | PWM     | ≤100mW        | 65KHz     | ±1%   | Y   | TO220-7           |
| ME8213      | 100W           | External NMOS | PWM/QR  | ≤30mW         | 65KHz     | ±1%   | Y   | SOP8              |
| ME8224      | 45W            | External NMOS | PWM/QR  | ≤75mW         | 65KHz     | ±1%   | Y   | SOT23-6           |
| ME8224-N    | 45W            | External NMOS | PWM     | ≤75mW         | 65KHz     | ±1%   | Y   | SOT23-6           |
| ME8228      | 65W            | External GaN  | PWM/QR  | ≤75mW         | 200KHz    | ±1%   | Y   | SOT23-6           |
| ME8230      | 45W            | Internal NMOS | PWM/PFM | ≤30mW         | 65~200KHz | ±1%   | Y   | DIP7              |
| ME8250      | 65W            | External GaN  | ACF     | ≤75mW         | 1.5MHz    | ±1%   | Y   | QFN3×3            |
| ME3843      | -              | External MOS  | PWM     | -             | ADJ       | ±1%   | -   | SOP8              |



## Non-Isolation HV BUCK ME86 Series (非隔离型降压芯片ME86系列) ME 系列

| Part No. | MODE | IQ    | Ron(MOS) | BVDS | Power (85-265V) | Package        |
|----------|------|-------|----------|------|-----------------|----------------|
| ME8604   | Buck | 220μA | 10Ω      | 650V | 2~10W           | SOP7 DIP7 SOP6 |
| ME8624   | Buck | 500μA | 7Ω       | 600V | 4W              | SOP8           |

## AC LED Driver (AC输入LED驱动芯片) ME 系列

| Part No.  | MODE    | PF      | Power (85-265V) | Accu. | MOS      | Segment       | Package                  |
|-----------|---------|---------|-----------------|-------|----------|---------------|--------------------------|
| ME8608-N  | Linear  | 0.5/0.9 | 16W             | ±4%   | Internal | Single String | ESOP8 TO252 SOT89-3 CPC4 |
| ME8608-N1 | Linear  | 0.5/0.9 | 16W             | ±4%   | Internal | Single String | ESOP8 TO252 SOT89-3      |
| ME8608-N2 | Linear  | 0.5/0.9 | 10W             | ±4%   | Internal | Single String | ESOP8 TO252              |
| ME8326    | Flyback | 0.9     | 50W             | ±3%   | External | NA            | SOT23-6                  |
| ME8610    | Buck    | 0.9     | 30W             | ±3%   | External | NA            | SOT23-6                  |
| ME8611    | Buck    | 0.9     | 12W             | ±3%   | Internal | NA            | SOP7                     |
| ME8615    | Buck    | 0.9     | 18W             | ±3%   | Internal | NA            | DIP7                     |
| ME8617    | Buck    | 0.9     | 18W             | ±3%   | Internal | NA            | SOP7                     |
| ME8620    | Linear  | 0.5/0.9 | 16W             | ±5%   | Internal | Single String | ESOP8                    |
| ME8621    | Linear  | 0.9     | 16W             | ±5%   | Internal | Single String | ESOP8                    |
| ME8628    | Linear  | 0.5/0.9 | 16W             | ±5%   | Internal | Single String | ESOP8                    |

## Synchronous Rectification Controller (同步整流控制器) ME 系列

| Part No. | VOUT    | Operating Mode | TR    | TF    | Package |
|----------|---------|----------------|-------|-------|---------|
| ME8411-N | 5.0V    | DCM/QR         | 100ns | 100ns | SOP8    |
| ME8413   | 5.0V    | DCM/QR         | 70ns  | 50ns  | SOP7    |
| ME8414   | 5.0V    | DCM/QR         | 70ns  | 50ns  | SOP8    |
| ME8415   | 5.0~20V | CCM/DCM/QR     | 60ns  | 22ns  | SOT23-5 |
| ME8417   | 3.3~24V | CCM/DCM/QR     | 60ns  | 22ns  | SOT23-6 |
| ME8418   | 3.3~24V | CCM/DCM/QR     | 60ns  | 22ns  | SOT23-6 |



## AC/DC Converter Supply (恒压恒流控制器) ME 系列

Adjustable Precision Shunt Regulators(可调节精密基准电压源)

| Part No. | $V_{KA}$         | $I_{KA}$      | $V_{REF}$ | Voltage Tolerance | Minimum Cathode Current<br>for Regulation $I_{KA(MIN)}$ | Package            |
|----------|------------------|---------------|-----------|-------------------|---------------------------------------------------------|--------------------|
| ME431A   | $V_{REF}$ to 36V | 1 to 100mA    | 2.5V      | ±0.4%             | 400μA                                                   | TO92 SOT23 SOT89-3 |
| ME431B   | $V_{REF}$ to 36V | 1 to 100mA    | 2.5V      | ±1%               | 400μA                                                   | TO92 SOT23 SOT89-3 |
| ME431C   | $V_{REF}$ to 36V | 1 to 100mA    | 2.5V      | ±0.2%             | 400μA                                                   | TO92 SOT23 SOT89-3 |
| ME431D   | $V_{REF}$ to 36V | 1 to 100mA    | 2.55V     | ±0.5%             | 400μA                                                   | SOT23              |
| MEQ431A  | $V_{REF}$ to 36V | 1 to 100mA    | 2.5V      | ±0.4%             | 400μA                                                   | TO92 SOT23 SOT89-3 |
| ME432A   | $V_{REF}$ to 18V | 0.1 to 100mA  | 1.25V     | ±0.5%             | 70μA                                                    | TO92 SOT23         |
| ME432B   | $V_{REF}$ to 18V | 0.1 to 100mA  | 1.25V     | ±1%               | 70μA                                                    | TO92 SOT23         |
| ME431L   | $V_{REF}$ to 36V | 0.035 to 80mA | 2.5V      | ±0.5%/1%          | 35μA                                                    | TO92 SOT23 SOT89-3 |

## Constant Voltage And Constant Current Controller (恒压恒流控制器)

| Part No. | $V_{CC}$ | $V_{SENSE}$ | $V_{REF}$ | Voltage Tolerance | Supply Current | Package |
|----------|----------|-------------|-----------|-------------------|----------------|---------|
| ME4312B  | 36V      | 74mV        | 1.21V     | ±1.0%             | 1.5mA          | SOP8    |
| ME4312C  | 36V      | 212mV       | 1.21V     | ±0.5%             | 1.5mA          | SOP8    |
| ME4313B  | 18V      | 200mV       | 1.21V     | ±1.0%             | 1.2mA          | SOT23-6 |
| ME4313C  | 18V      | 70mV        | 1.21V     | ±0.5%             | 1.2mA          | SOT23-6 |
| ME4315   | 36V      | 70mV        | 1.21V     | ±1.0%             | 0.85mA         | SOT23-6 |
| ME4315L  | 40V      | 70mV        | 1.21V     | ±0.5%             | 0.05mA         | SOT23-6 |



## Smart Meter IC 表计芯片

### Energy Measurement ASIC (电能计量专用电路)



| Part No. | Measurement                                          | Power Consumption | ADC Channels | Output     | Clock    | VDD  | Calibration Free | Package | Application        |
|----------|------------------------------------------------------|-------------------|--------------|------------|----------|------|------------------|---------|--------------------|
| BL0921   | Active                                               | 20mW              | 3            | Pulse      | Internal | 5.0V | ×                | SOP16   | 单相防窃电能表            |
| BL6501A  | Active                                               | 15mW              | 3            | Pulse      | 3.58MHz  | 5.0V | ×                | SSOP24  | 单相防窃电能表            |
| BL0930F  | Active 3000:1                                        | 10mW              | 2            | Pulse      | Internal | 3.3V |                  | TSSOP14 | 单相有功电能表<br>支持自动化校表 |
| BL6503E  | Active                                               | 15mW              | 2            | Pulse      | 3.58MHz  | 5.0V | ×                | SSOP24  | 单相有功电能表            |
| BL6513C  | Active 3000:1                                        | 25mW              | 6            | Pulse      | 3.58MHz  | 5.0V | ×                | SOP24   | 三相有功电能表            |
| BL6523GX | PF, V, P, Multifunction (Active 6000:1, I, Freq.), S | 25mW              | 3            | UART/Pulse | 3.58MHz  | 5.0V | ×                | SOP16   | 国网单相多功能电能表         |

## Measurement IC Of IOT(物联网计量电路)

| Part No. | Measurement                                                                                        | Power Consumption | ADC Channels | Output   | Clock    | VDD  | Calibration Free | Package        | Application             |
|----------|----------------------------------------------------------------------------------------------------|-------------------|--------------|----------|----------|------|------------------|----------------|-------------------------|
| BL0937B  | Multifunction (Active, I, V, P.)                                                                   | 6mW               | 2            | Pulse    | Internal | 3.3V | ×                | SOP8           | 智能插座                    |
| BL0939   | Multifunction (Active, I, V, P.)                                                                   | 10mW              | 3            | UART/SPI | Internal | 3.3V | ✓                | SOP16 SSOP20   | 电动自行车充电桩<br>单相智能断路器     |
| BL0940   | Multifunction (Active, I, V, P.)                                                                   | 8mW               | 2            | UART/SPI | Internal | 3.3V | ✓                | TSSOP14        | DALI2.0智能照明<br>智能家电计量模块 |
| BL0942   | Multifunction (Active, I, V, P, Freq.)                                                             | 10mW              | 2            | UART/SPI | Internal | 3.3V | ✓                | SSOP10 TSSOP14 | 智能插座<br>智能家电计量模块        |
| BL0910   | 1U10I Or 3U6I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) /DC 2000:1 | 30mW              | 11           | UART/SPI | Internal | 3.3V | AC: ✓ DC: ×      | LQFP48         | 多路充电桩<br>智能 PDU         |
| BL0906   | 1U6I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) /DC 2000:1          | 30mW              | 7            | UART/SPI | Internal | 3.3V | AC: ✓ DC: ×      | LQFP32         | 直流检测模块                  |
| BL6552   | 3U4I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I)                     | 30mW              | 7            | UART/SPI | 3.58MHz  | 3.3V |                  | QFN36          | 三相智能断路器<br>三相电能质量监测     |
| BL0973   | 1U2I, Multifunction (Active 5000:1, Reactive 5000:1, Freq., PF, Q, S, P, V, I) /DC 2000:1          | 10mW              | 3            | SPI/IIC  | Internal | 3.3V | AC: ✓ DC: ×      | TSSOP28        | 双路交直流电信号<br>监控与采集       |

## Relay Driver (磁保持继电器驱动芯片)

| Part No. | Features                   | VIN     | VTH | IQ   | Driving Current | Rds(on) Typ.             | Package      | Application |
|----------|----------------------------|---------|-----|------|-----------------|--------------------------|--------------|-------------|
| BL8023C  | Bidirectional Relay Driver | 5.0~36V | 3V  | <1μA | 300mA           | 12Ω@Vin=12V, 10Ω@Vin=30V | SOP8 DIP8    | Smart Meter |
| BL8023D  | Bidirectional Relay Driver | 5.0~36V | 3V  | <1μA | 300mA           | 12Ω@Vin=12V, 10Ω@Vin=30V | SOT23-6      | Smart Meter |
| BL8023F  | Bidirectional Relay Driver | 5.0~36V | 2V  | <1μA | 300mA           | 12Ω@Vin=12V, 10Ω@Vin=30V | SOT23-6 SOP8 | Smart Meter |
| BL8023H  | Bidirectional Relay Driver | 5.0~40V | 2V  | <1μA | 400mA           | 7Ω@Vin=12V, 6.5Ω@Vin=30V | SOT23-6      | Smart Meter |
| BL8023K  | Bidirectional Relay Driver | 5.0~40V | 2V  | <1μA | 400mA           | 7Ω@Vin=12V, 7Ω@Vin=30V   | SOT23-6      | Smart Meter |



## LCD Display Driver (液晶显示驱动芯片)

| Part No. | Features              | IDD (Power Saving) | IDD (Normal Mode) | Interface       | Supple Voltage | Package        | Reference |
|----------|-----------------------|--------------------|-------------------|-----------------|----------------|----------------|-----------|
| BL55028  | 4 x 19 SEG            | 9 $\mu$ A@3.3V     | 25 $\mu$ A@5V     | Two-wire Serial | 2.5~5.5V       | SOP28          |           |
| BL55066B | 4 x 24 SEG            | 9 $\mu$ A@3.3V     | 25 $\mu$ A@5V     | Two-wire Serial | 2.5~5.5V       | LQFP44         | PCF8566   |
| BL55073  | 4 x 19 SEG            | 7.5 $\mu$ A@3.3V   | 10 $\mu$ A@5V     | Two-wire Serial | 2.5~5.5V       | TSSOP28        |           |
| BL55072A | 4 x 36 SEG            | 7.5 $\mu$ A@3.3V   | 10 $\mu$ A@5V     | Two-wire Serial | 2.5~5.5V       | TSSOP48        | BU9792    |
| BL55077  | 4 x 40 SEG            | 9 $\mu$ A@3.3V     | 25 $\mu$ A@5V     | Two-wire Serial | 2.5~5.5V       | LQFP64         | PCF8576   |
| BL55080  | 8 x 35 SEG            | 8 $\mu$ A@3.3V     | 10 $\mu$ A@5V     | Two-wire Serial | 2.5~5.5V       | TSSOP48 LQFP48 | BU97950   |
| BL55088  | 8 x 38 SEG 6 x 38 SEG | 9 $\mu$ A@3.3V     | 12 $\mu$ A@5V     | Two-wire Serial | 2.5~5.5V       | LQFP52         |           |

## SoC 系统级专用芯片

### Meter SOC (电能表专用系统级芯片)

| Part No.  | CPU    | VDD      | Flash | RAM  | Measurement Features           | LCD Driver                                                        | GPIO | RTC | Crystal(Hz) | Encrypt             | I <sup>2</sup> C | SPI | UART | 7816 | Package                  |
|-----------|--------|----------|-------|------|--------------------------------|-------------------------------------------------------------------|------|-----|-------------|---------------------|------------------|-----|------|------|--------------------------|
| BL66A0242 | ARM-M0 | 2.4~5.5V | 256KB | 32KB | 3 $\times$ $\Sigma$ - $\Delta$ | 4COM $\times$ 22SEG<br>6COM $\times$ 20SEG<br>8COM $\times$ 18SEG | 42   | ✓   | 32.768K     | AES 256/<br>192/128 | 1                | 1   | 4    | 2    | LQFP64<br>(7 $\times$ 7) |

### General Purpose MCU (通用微控制器)

| Part No.  | VDD      | ROM         | RAM  | TIMER   | OSC                   | I/O | INT | ADC        | PWM | Package                        | OTHER                                        |
|-----------|----------|-------------|------|---------|-----------------------|-----|-----|------------|-----|--------------------------------|----------------------------------------------|
| BL23M1610 | 1.8~5.5V | 16Kx8 MTP   | 512B | 3x16bit | ILRC 32KHz, IRC 8MHz  | 22  | 4   | 13CHx12bit | 3CH | SOP20 QFN20 QFN24              | STOP, WAIT, KBI, CMP, I <sup>2</sup> C, UART |
| BL32F3210 | 2.0~5.5V | 32Kx8 Flash | 2KB  | 3x16bit | ILRC 32KHz, IRC 24MHz | 26  | 26  | 15CHx12bit | 3CH | TSSOP20 TSSOP28<br>QFN20 QFN24 | STOP, WAIT, I <sup>2</sup> C, UART           |

### Optical Transceiver SOC (光模块专用微控制器)

| Part No.    | VDD      | IRC   | ROM/EE        | RAM | GPIO | Timer    | PWM | USART | I <sup>2</sup> C | ADC    | DAC        | Temperature Sensor   | Package |
|-------------|----------|-------|---------------|-----|------|----------|-----|-------|------------------|--------|------------|----------------------|---------|
| BL32F3202NP | 2.0~5.5V | 32MHz | 32K Flash     | 2KB | 17   | 3 x16bit | 3CH | 1     | 2                | 10 + 1 | -          | $\pm$ 2 $^{\circ}$ C | QFN20   |
| BL32F3222NQ | 2.0~5.5V | 32MHz | 32K Flash     | 2KB | 20   | 3 x16bit | 3CH | 1     | 2                | 14 + 1 | 12bit x2CH | $\pm$ 2 $^{\circ}$ C | QFN24   |
| BL32F3222NR | 2.0~5.5V | 32MHz | 32K Flash     | 2KB | 29   | 3 x16bit | 3CH | 1     | 2                | 22 + 1 | 12bit x2CH | $\pm$ 2 $^{\circ}$ C | QFN32   |
| BL32F3232NQ | 2.0~5.5V | 32MHz | 32K+15K Flash | 2KB | 17   | 3 x16bit | 3CH | 1     | 2                | 14 + 1 | 12bit x4CH | $\pm$ 2 $^{\circ}$ C | QFN24   |
| BL32F3232NR | 2.0~5.5V | 32MHz | 32K+15K Flash | 2KB | 27   | 3 x16bit | 3CH | 1     | 2                | 22 + 1 | 12bit x4CH | $\pm$ 2 $^{\circ}$ C | QFN32   |



## Power Line Communication Modem Chip (电力线载波通信调制解调电路)

Application: AMR, Lighting Control, Fire Monitoring, Building Automation

| Part No. | General Description           | Supple Voltage | Frequency Band (Adaptive)                        | Data Rate (Adaptive)  | Standard | Sensitivity | Package |
|----------|-------------------------------|----------------|--------------------------------------------------|-----------------------|----------|-------------|---------|
| BL6810   | BPSK/DSSS Narrow Band PLC SoC | 4.5~5.5V       | 131.58 kHz / 263.16 kHz<br>312.5 kHz / 416.67kHz | 5.48kbps/783bps/87bps | EIA709.2 | <1μV        | LQFP32  |

## Isolator 隔离器芯片

Digital Isolator (数字隔离器)

| Part No. | VDD       | Data Rate | Channel | Forward/Reverse | Viso     | Default Output | Integrated Power | Package | Reference           | Application |
|----------|-----------|-----------|---------|-----------------|----------|----------------|------------------|---------|---------------------|-------------|
| BL7120AL | 2.35~5.5V | 100Mbps   | 2       | 2/0             | 3750Vrms | L              | No               | SOP8N   | ISO7720             | 电机控制, 电源系统  |
| BL7120AH | 2.35~5.5V | 100Mbps   | 2       | 2/0             | 3750Vrms | H              | No               | SOP8N   | Si86220<br>ADUM1200 | 电机控制, 电源系统  |
| BL7121AL | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 3750Vrms | L              | No               | SOP8N   | ISO7721             | 电机控制, 电源系统  |
| BL7121AH | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 3750Vrms | H              | No               | SOP8N   | Si8622<br>ADUM1201  | 电机控制, 电源系统  |
| BL7122AL | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 3750Vrms | L              | No               | SOP8N   | ISO7722             | 电机控制, 电源系统  |
| BL7122AH | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 3750Vrms | H              | No               | SOP8N   | Si8622<br>ADUM1202  | 电机控制, 电源系统  |
| BL7120BL | 2.35~5.5V | 100Mbps   | 2       | 2/0             | 5000Vrms | L              | No               | SOIC8W  | ISO7720             | 电机控制, 电源系统  |
| BL7120BH | 2.35~5.5V | 100Mbps   | 2       | 2/0             | 5000Vrms | H              | No               | SOIC8W  | Si86220<br>ADUM1200 | 电机控制, 电源系统  |
| BL7121BL | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 5000Vrms | L              | No               | SOIC8W  | ISO7721             | 电机控制, 电源系统  |
| BL7121BH | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 5000Vrms | H              | No               | SOIC8W  | Si8622<br>ADUM1201  | 电机控制, 电源系统  |
| BL7122BL | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 5000Vrms | L              | No               | SOIC8W  | ISO7722             | 电机控制, 电源系统  |
| BL7122BH | 2.35~5.5V | 100Mbps   | 2       | 1/1             | 5000Vrms | H              | No               | SOIC8W  | Si8622<br>ADUM1202  | 电机控制, 电源系统  |
| BL7140WL | 2.35~5.5V | 100Mbps   | 4       | 4/0             | 5000Vrms | L              | No               | SOIC16W | ISO7740             | 电机控制, 电源系统  |
| BL7140WH | 2.35~5.5V | 100Mbps   | 4       | 4/0             | 5000Vrms | H              | No               | SOIC16W | Si8640<br>ADUM1400  | 电机控制, 电源系统  |
| BL7141WL | 2.35~5.5V | 100Mbps   | 4       | 3/1             | 5000Vrms | L              | No               | SOIC16W | ISO7741             | 电机控制, 电源系统  |
| BL7141WH | 2.35~5.5V | 100Mbps   | 4       | 3/1             | 5000Vrms | H              | No               | SOIC16W | Si8641<br>ADUM1401  | 电机控制, 电源系统  |
| BL7142WL | 2.35~5.5V | 100Mbps   | 4       | 2/2             | 5000Vrms | L              | No               | SOIC16W | ISO7742             | 电机控制, 电源系统  |
| BL7142WH | 2.35~5.5V | 100Mbps   | 4       | 2/2             | 5000Vrms | H              | No               | SOIC16W | Si8642<br>ADUM1402  | 电机控制, 电源系统  |
| BL7140NL | 2.35~5.5V | 100Mbps   | 4       | 4/0             | 3750Vrms | L              | No               | SOIC16  | ISO7740             | 电机控制, 电源系统  |
| BL7140NH | 2.35~5.5V | 100Mbps   | 4       | 4/0             | 3750Vrms | H              | No               | SOIC16  | Si8640<br>ADUM1400  | 电机控制, 电源系统  |
| BL7141NL | 2.35~5.5V | 100Mbps   | 4       | 3/1             | 3750Vrms | L              | No               | SOIC16  | ISO7741             | 电机控制, 电源系统  |
| BL7141NH | 2.35~5.5V | 100Mbps   | 4       | 3/1             | 3750Vrms | H              | No               | SOIC16  | Si8641<br>ADUM1401  | 电机控制, 电源系统  |



## Digital Isolator (数字隔离器)

| Part No. | VDD       | Data Rate | Channel | Forward/Reverse | Viso     | Default Output | Integrated Power | Package | Reference         | Application |
|----------|-----------|-----------|---------|-----------------|----------|----------------|------------------|---------|-------------------|-------------|
| BL7142NL | 2.35~5.5V | 100Mbps   | 4       | 2/2             | 3750Vrms | L              | No               | SOIC16  | ISO7742<br>Si8642 | 电机控制, 电源系统  |
| BL7142NH | 2.35~5.5V | 100Mbps   | 4       | 2/2             | 3750Vrms | H              | No               | SOIC16  | ADUM1402          | 电机控制, 电源系统  |
| BL7140SL | 2.35~5.5V | 100Mbps   | 4       | 4/0             | 3750Vrms | L              | No               | SSOP16  | ISO7740<br>Si8640 | 电机控制, 电源系统  |
| BL7140SH | 2.35~5.5V | 100Mbps   | 4       | 4/0             | 3750Vrms | H              | No               | SSOP16  | ADUM1400          | 电机控制, 电源系统  |
| BL7141SL | 2.35~5.5V | 100Mbps   | 4       | 3/1             | 3750Vrms | L              | No               | SSOP16  | ISO7741<br>Si8641 | 电机控制, 电源系统  |
| BL7141SH | 2.35~5.5V | 100Mbps   | 4       | 3/1             | 3750Vrms | H              | No               | SSOP16  | ADUM1401          | 电机控制, 电源系统  |
| BL7142SL | 2.35~5.5V | 100Mbps   | 4       | 2/2             | 3750Vrms | L              | No               | SSOP16  | ISO7742<br>Si8642 | 电机控制, 电源系统  |
| BL7142SH | 2.35~5.5V | 100Mbps   | 4       | 2/2             | 3750Vrms | H              | No               | SSOP16  | ADUM1402          | 电机控制, 电源系统  |

## Standard Interface Circuit 接口电路

### RS-485 Transceivers (RS-485收发器)

| Part No.     | Features                              | VDD        | Data Rate (Max.) | ICC   | Package | Max. Points | Range Of Temp. | Reference     |
|--------------|---------------------------------------|------------|------------------|-------|---------|-------------|----------------|---------------|
| BL3085(I47)  | 15KV ESD Protected RS485 Transceivers | 3.3V, 5.0V | 500kbps          | 0.4mA | SOP8    | 256         | -40~+85°C      | MAX3085       |
| BL3085N(I56) | 15KV ESD Protected RS485 Transceivers | 5.0V       | 500kbps          | 0.4mA | SOP8    | 256         | -40~+85°C      | Self-adaption |
| BL3085B      | 18KV ESD Protected RS485 Transceivers | 5.0V       | 250kbps          | 0.2mA | SOP8    | 256         | -40~+85°C      | MAX3085       |
| BL3085A(H)   | 15KV ESD Protected RS485 Transceivers | 3.3V, 5.0V | 250kbps          | 0.4mA | SOP8    | 256         | -40~+85°C      | MAX3085       |
| BL1587       | 15KV ESD Protected RS485 Transceivers | 5.0V       | 2Mbps            | 0.9mA | SOP8    | 128         | -40~+85°C      |               |
| BL1590       | 15KV ESD Protected RS485 Transceivers | 3.3V, 5.0V | 16Mbps           | 1.5mA | SOP8    | 32          | -40~+125°C     | SN65176       |

### RS-232 Transceivers (RS-232收发器)

| Part No. | Features                                | VCC      | Data Rate (Max.) | No. of Tx. | No. of Rx. | Package       | Range Of Temp. | Reference |
|----------|-----------------------------------------|----------|------------------|------------|------------|---------------|----------------|-----------|
| BL13232E | ±15KV ESD Protected RS-232 Transceivers | 3.0~5.5V | 250kbps          | 2          | 2          | SOP16 TSSOP16 | -40~+125°C     | MAX3232E  |

## Video Filter Driver (视频滤波驱动)

| Part No. | Features                                                                | -3dB BandWidth | VDD      | ESD | Package | Applications | Reference |
|----------|-------------------------------------------------------------------------|----------------|----------|-----|---------|--------------|-----------|
| BL1511   | 1 Channel 5 <sup>th</sup> Order Standard Definition Video Filter Driver | 8 MHz          | 3.3~5.5V | 8KV | SC70-5  | Set Top Box  | SGM9111   |
| BL1511B  | 1 Channel 5 <sup>th</sup> Order Standard Definition Video Filter Driver | 8 MHz          | 3.3~5.5V | 8KV | SC70-5  | Set Top Box  | SGM9113   |



## Amplifiers 放大器

### Low Voltage General Operational Amplifiers (低压通用运算放大器)

| Part No. | Channel | Noise@1KHz<br>Typ (nV/√Hz) | Power Supply<br>(V) | GBW (MHz) | Slew Rate (V/μs) | Iq/CH (μA) | Input Bias<br>Current (pA) | Maximum Vos<br>(mV) | Rail To Rail<br>Input/Output | Package       |
|----------|---------|----------------------------|---------------------|-----------|------------------|------------|----------------------------|---------------------|------------------------------|---------------|
| BL321L   | 1       | 27                         | 2.1~5.5             | 1         | 0.6              | 40         | 1                          | 3.5                 | Y                            | SOT23-5       |
| BL358L   | 2       | 27                         | 2.1~5.5             | 1         | 0.6              | 40         | 1                          | 3.5                 | Y                            | SOP8          |
| BL324L   | 4       | 27                         | 2.1~5.5             | 1         | 0.6              | 40         | 1                          | 3.5                 | Y                            | SOP14 TSSOP14 |

### Medium Voltage General Operational Amplifiers (中压通用运算放大器)

| Part No. | Channel | CMRR(dB) | Power Supply<br>(V) | GBW (MHz) | PSRR (dB) | Iq/CH (μA) | Input Bias<br>Current (nA) | Maximum Vos<br>(mV) | Rail To Rail<br>Input/Output | Package |
|----------|---------|----------|---------------------|-----------|-----------|------------|----------------------------|---------------------|------------------------------|---------|
| BL321    | 1       | 90       | 4~25                | 1         | 85        | 430        | 45                         | 5.0                 | N                            | SOT23-5 |
| BL358    | 2       | 90       | 4~25                | 1         | 85        | 430        | 45                         | 5.0                 | N                            | SOP8    |

### High Voltage General Operational Amplifiers (高压通用运算放大器)

| Part No. | Channel | CMRR(dB) | Power Supply<br>(V) | GBW (MHz) | Slew Rate (V/μs) | Iq/CH (μA) | Input Bias<br>Current (nA) | Vos (mV) | Rail To Rail<br>Input/Output | Package |
|----------|---------|----------|---------------------|-----------|------------------|------------|----------------------------|----------|------------------------------|---------|
| BL358H   | 2       | 70       | 3~36                | 1         | 0.2              | 250        | 20                         | 0.4~5.0  | N                            | SOP8    |
| BL324    | 4       | 70       | 3~36                | 1         | 0.2              | 250        | 20                         | 0.4~5.0  | N                            | SOP14   |

### Low Noise Operational Amplifiers (低噪声运算放大器)

| Part No. | Channel | Noise@1KHz<br>Typ (nV/√Hz) | Power Supply<br>(V) | GBW (MHz) | Slew Rate (V/μs) | Iq/CH (μA) | Input Bias<br>Current (pA) | Vos (mV)<br>Type | Rail To Rail<br>Input/Output | Package    |
|----------|---------|----------------------------|---------------------|-----------|------------------|------------|----------------------------|------------------|------------------------------|------------|
| BL3791   | 1       | 11.5                       | 2.1~5.5             | 11        | 9                | 1100       | 1                          | 0.8              | Y                            | SOT23-5    |
| BL3792   | 2       | 11.5                       | 2.1~5.5             | 11        | 9                | 1100       | 1                          | 0.8              | Y                            | SOP8 MSOP8 |
| BL3794   | 4       | 11.5                       | 2.1~5.5             | 11        | 9                | 1100       | 1                          | 0.8              | Y                            | SOP14      |
| BL3781   | 1       | 13                         | 2.1~5.5             | 6         | 4.2              | 470        | 1                          | 0.8              | Y                            | SOT23-5    |
| BL3782   | 2       | 13                         | 2.1~5.5             | 6         | 4.2              | 470        | 1                          | 0.8              | Y                            | SOP8       |
| BL3784   | 4       | 13                         | 2.1~5.5             | 6         | 4.2              | 470        | 1                          | 0.8              | Y                            | SOP14      |



## Precision Operational Amplifiers (高精度运算放大器)

| Part No. | Channel | Noise@1KHz<br>Typ (nV/√Hz) | Power Supply<br>(V) | GBW (MHz) | Slew Rate (V/μs) | Iq/CH (μA) | Input Bias<br>Current (pA) | Maximum Vos<br>(μV) | Rail To Rail<br>Input/Output | Package       |
|----------|---------|----------------------------|---------------------|-----------|------------------|------------|----------------------------|---------------------|------------------------------|---------------|
| BL3891   | 1       | 30                         | 1.8~5.5             | 1.8       | 0.95             | 180        | 20                         | 38                  | Y                            | SOT23-5       |
| BL3892   | 2       | 30                         | 1.8~5.5             | 1.8       | 0.95             | 180        | 20                         | 38                  | Y                            | SOP8 MSOP8    |
| BL3894   | 4       | 30                         | 1.8~5.5             | 1.8       | 0.95             | 180        | 20                         | 38                  | Y                            | SOP14 TSSOP14 |

## Nano-Power Operational Amplifiers (纳安级运算放大器)

| Part No. | Channel | Power Supply (V) | GBW (KHz) | Slew Rate (V/ms) | Iq/CH (nA) | Input Bias Current (pA) | Maximum Vos (mV) | Rail To Rail<br>Input/Output | Package       |
|----------|---------|------------------|-----------|------------------|------------|-------------------------|------------------|------------------------------|---------------|
| BL3601   | 1       | 1.4~5.5          | 10        | 3.7              | 550        | 1                       | 2                | Y                            | SOT23-5       |
| BL3602   | 2       | 1.4~5.5          | 10        | 3.7              | 550        | 1                       | 2                | Y                            | SOP8 MSOP8    |
| BL3604   | 4       | 1.4~5.5          | 10        | 3.7              | 550        | 1                       | 2                | Y                            | SOP14 TSSOP14 |

## Class AB Audio Amplifier (AB类音频功放电路)

Applications: (1) Mobile phone, (2) PDA and handheld terminal, (3) MP3/MP4 player, (4) Portable DVD, (5) MID, (6) Multimedia Speaker

| Part No. | Features              | Output | PSRR | VDD      | Package    | Applications | Reference |
|----------|-----------------------|--------|------|----------|------------|--------------|-----------|
| BL6281G  | Audio Power Amplifier | 1.7W   | 60dB | 2.2~5.5V | MSOP8 SOP8 | (1)(3)(5)    | LM4990    |
| BL8002   | Audio Power Amplifier | 1.7W   | 60dB | 2.2~5.5V | SOP8       | (2)(3)(5)(6) | 8002      |

## Class D Audio Amplifier (D类音频功放电路)

Applications: (1) Digital Photo Frame, (2) GPS/PND, (3) USB Speaker, (4) Portable DVD, (5) TV.

| Part No. | Features                                       | Output | PSRR | VDD      | Package    | Applications    | Reference |
|----------|------------------------------------------------|--------|------|----------|------------|-----------------|-----------|
| BL6306   | Mono Filter-Free Class D Audio Power Amplifier | 2.6 W  | 75dB | 2.5~5.5V | MSOP8 SOP8 | (1) (2) (3) (4) | TPA2005   |

## Analog Switch 模拟开关

| Part No. | Mode | Features                                          | VDD       | Package               | Applications                                              | Reference         |
|----------|------|---------------------------------------------------|-----------|-----------------------|-----------------------------------------------------------|-------------------|
| BL1551B  | SPDT | 2.7Ω 350MHz Low-Voltage Analog Switch             | 1.8~5.5V  | SC70-6                | Mobile Phone, Portable Electronic Devices                 | FSA3157 NLASB3157 |
| BL1555   | SPDT | 0.3Ω 33MHz Bandwidth Dual SPDT Analog Switch      | 1.65~5.5V | MSOP10 QFN1.8x1.4-10L | Mobile Phone, Portable Electronic Devices                 | SGM3005 SGM5223   |
| BL1530   | DPDT | High Speed USB 2.0(480Mbps)                       | 2.3~5.0V  | TQFN10 MSOP10         | Mobile phone, DC and Notebook                             | SGM7222 FSUSB30   |
| BL1532   | DPDT | High Speed USB 2.0(480Mbps)                       | 2.3~5.0V  | TQFN10 MSOP10         | Mobile phone, DC and Notebook                             | SGM7227 FSUSB42   |
| BL1557   | SPDT | 3.5Ω, 400MHz Bandwidth, Dual SPDT Analog Switch   | 1.8~5.5V  | QFN1.8x1.4-10L        | Mobile Phone, Portable Electronic Devices                 | SGM4717EP         |
| BL1558   | SPDT | 4Ω High Speed Low Voltage Quad SPDT Analog Switch | 1.8~5.5V  | QFN3x3-16L            | Audio & Video Signal Routing, Portable Electronic Devices |                   |
| BL1561   | SPST | 3.5Ω Single Bilateral SPST Analog Switch          | 1.8~5.5V  | SC70-5                | Wearable Devices, Portable Electronic Devices             | SN74LVC1G66       |



## Drive Circuit 驱动电路

### DC Motor Driver (马达驱动)

| Part No. | Number of Outputs | VIN      | Continuous Current | Peak Current | OTP | OCP | Package        | Application | Reference |
|----------|-------------------|----------|--------------------|--------------|-----|-----|----------------|-------------|-----------|
| BL8310   | 1                 | 2.0~6.8V | 1.0A               | 1.5A         | ✓   | ×   | SOP8 DFN2×2-8L | 三表、电动牙刷     | DRV8837C  |
| BL6208   | 1                 | 2.0~6.8V | 1.0A               | 1.5A         | ✓   | ×   | SOP8           | IR-CUT      | BA6208    |
| BL113    | 1                 | 2.0~6.8V | 1.0A               | 1.5A         | ✓   | ×   | SOT23-6        | 三表          | SY6712    |
| BL5610   | 1                 | 2.5~12V  | 1.2A               | 2.0A         | ✓   | ×   | SOP8           | 智能门锁        | 9110      |
| BL5612   | 1                 | 3.0~25V  | 1.5A               | 4.5A         | ✓   | ✓   | SOP8           | 智能断路器       | PN7705    |
| BL5616   | 1                 | 3.0~25V  | 1.5A               | 4.5A         | ✓   | ✓   | SOP8           | 海外表、单火取电    |           |
| BL5617   | 1                 | 3.0~25V  | 3.0A               | 5.0A         | ✓   | ✓   | SOP8           | 全自动门锁       |           |
| BL8837   | 1                 | 1.8~12V  | 1.8A               | 3.0A         | ✓   | ✓   | SOP8 DFN2×2-8L | 智能三表        | DRV8837   |
| SA8870   | 1                 | 7.0~45V  | 3.5A               | 5.0A         | ✓   | ✓   | ESOP8          | 扫地机器人       | DRV8870   |
| BL5633C  | 2                 | 2.7~12V  | 1.0A               | 3.0A         | ✓   | ✓   | ETSOP16        | 微型POS机      | DRV8833C  |
| BL1909   | 2                 | 4.0~22V  | 1.0A               | 1.2A         | ✓   | ✓   | SSOP10         | 冰箱风门控制阀     | 1909      |

### Half-bridge Driver (半桥驱动)

| Part No. | Voffset (V) | Number of Outputs | VCC (V) | Input Logic | IO+/IO- (A) | Dead Time(ns) | OCP | Enable | Package |
|----------|-------------|-------------------|---------|-------------|-------------|---------------|-----|--------|---------|
| BL8202   | 250         | 1                 | 10~20   | HIN/LIN     | 1.0 / 1.5   | 200           | ×   | ×      | SOP8    |
| BL8203   | 250         | 1                 | 10~20   | HIN/LINB    | 1.0 / 1.5   | 200           | ×   | ×      | SOP8    |
| BL8288   | 250         | 3                 | 5~20    | HIN/LIN     | 1.5 / 1.8   | 250           | ×   | ×      | TSSOP20 |
| BL8601   | 600         | 1                 | 10~20   | HIN/LIN     | 0.3 / 0.6   | 50            | ×   | ×      | SOP8    |
| SA2602   | 600         | 1                 | 10~20   | HIN/LIN     | 0.3 / 0.6   | 500           | ×   | ×      | SOP8    |
| SA2603   | 600         | 1                 | 10~20   | HIN/LINB    | 0.3 / 0.6   | 500           | ×   | ×      | SOP8    |
| SA2604   | 600         | 1                 | 10~20   | IN/SD       | 0.3 / 0.6   | 500           | ×   | ✓      | SOP8    |
| SA2605   | 600         | 1                 | 10~20   | HIN/LIN     | 0.3 / 0.6   | 50            | ×   | ×      | SOP8    |
| BL8636   | 600         | 3                 | 10~20   | HINB/LINB   | 0.3 / 0.6   | 290           | ✓   | ✓      | SOP28   |
| BLD2113  | 600         | 1                 | 10~20   | HIN/LIN     | 2.5 / 2.5   | ×             | ×   | ✓      | SOIC16  |



## MOS Driver (MOS驱动)

| Part No. | VCC MAX (V) | Number of Outputs | VCC (V) | IO+/IO- (A) | Input Logic | Package        |
|----------|-------------|-------------------|---------|-------------|-------------|----------------|
| SA2530   | 32          | 1                 | 5~25    | 1.0 / 1.5   | IN          | SOT23-5        |
| SA2531   | 32          | 1                 | 5~25    | 1.0 / 1.5   | EN/IN       | SOT23-5        |
| SA2532   | 32          | 2                 | 5~25    | 1.0 / 1.5   | INA/INB     | SOP8 DFN2x2-8L |

## Darlington Transistor Arrays (达林顿驱动)

| Part No. | Drivers Per Package | Output Current (Max.) | Output Voltage (Max.) | Package          | Application   |
|----------|---------------------|-----------------------|-----------------------|------------------|---------------|
| ULN2003  | 7                   | 500mA                 | 50V                   | SOP16            | 小家电, 安防, 步进马达 |
| ULN2803  | 8                   | 500mA                 | 50V                   | SOP18 QFN20(4x4) | 小家电, 安防, 步进马达 |
| ULN2803L | 8                   | 500mA                 | 7V                    | CPC20            | 安防            |

## Smoke Detector (烟雾检测电路)

| Part No. | Features                    | Hush | Output Signal    | Standby Current | UL Certified | Package     |
|----------|-----------------------------|------|------------------|-----------------|--------------|-------------|
| BL5910   | Photoelectric Type With I/O | N/A  | Continuous Alarm | 10μA            | Pass         | DIP16 SOP16 |
| BL5912   | Photoelectric Type With I/O | N/A  | Temporal Alarm   | 10μA            | Pass         | DIP16 SOP16 |

## Real Time Clock (低功耗实时时钟)

| Part No. | Alarm Sets       | Periodic INT    | Standby      | CLK/INT Output | Clock Adj. | I/O              | Clock VDD | Work VDD | Package                | Reference |
|----------|------------------|-----------------|--------------|----------------|------------|------------------|-----------|----------|------------------------|-----------|
| BL5372   | 2                | 2Hz to 1 Month  | 400nA @5.0V  | Open Drain     | Yes        | Two-wire Serial  | 1.8~5.5V  | 1.8~5.5V | SOP8 TSSOP8            | 5C372     |
| BLX8563  | 1Signal/4 Source | 484μS to 1 Week | 1400nA @5.0V | Open Drain     | No         | I <sup>2</sup> C | 0.9~5.5V  | 0.9~5.5V | SOP8 TSSOP8 MSOP8 DIP8 | 8563      |
| BLX85063 | 1Signal/5 Source | 484μS to 1 Week | 1400nA @5.0V | Open Drain     | Yes        | I <sup>2</sup> C | 0.9~5.5V  | 0.9~5.5V | SOP8 TSSOP8 MSOP8 DIP8 | 85063     |



## EEPROM 存储器

| Part No.   | Capacity                     | Interface                   | VDD      | Package                                        | Reference |
|------------|------------------------------|-----------------------------|----------|------------------------------------------------|-----------|
| BL24C02A   | 2K bits                      | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C02     |
| BL24C02F   | 2K bits                      | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C02     |
| BL24C04A   | 4K bits                      | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C04     |
| BL24C04F   | 4K bits                      | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C04     |
| BL24C08A   | 8K bits                      | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C08     |
| BL24C08F   | 8K bits                      | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C08     |
| BL24C16A   | 16K bits                     | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C16     |
| BL24C16F   | 16K bits                     | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C16     |
| BL24C32A   | 32K bits                     | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C32     |
| BL24C32F   | 32K bits                     | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C32     |
| BL24C64A   | 64K bits                     | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5 WLCSP4 | 24C64     |
| BL24C128A  | 128K bits                    | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 WLCSP4                  | 24C128    |
| BL24C256A  | 256K bits                    | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C256    |
| BL24C512A  | 512K bits                    | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C512    |
| BL24C512B  | 512K bits                    | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 SOT23-5        | 24C512    |
| BL24CM1A   | 1024K bits                   | Two-wire Serial             | 2.0~5.5V | DIP8 SOP8 TSSOP8 UDFN8                         | 24C1024   |
| BL24CM2A   | 2048K bits                   | Two-wire Serial             | 2.8~5.5V | DIP8 SOP8 WLCSP8                               | 24C2048   |
| BL24CS32   | 32K bits                     | Two-wire Serial             | 1.7~5.5V | DIP8 SOP8 TSSOP8 UDFN8 WLCSP4                  | 24CS32    |
| BL24SA64   | 64K bits                     | Two-wire Serial             | 1.7~5.5V | WLCSP4                                         | 24SA64    |
| BL24SA64B  | 64K bits                     | Two-wire Serial             | 1.7~5.5V | WLCSP4                                         | 24SA64    |
| BL24SA64C  | 64K bits                     | Two-wire Serial             | 1.7~5.5V | WLCSP4                                         | 24SA64    |
| BL24SA64D  | 64K bits                     | Two-wire Serial             | 1.7~5.5V | WLCSP4                                         | 24SA64    |
| BL24SA128B | 128K bits                    | Two-wire Serial             | 1.7~3.6V | WLCSP4                                         | 24SA128   |
| BL24SA128D | 128K bits                    | Two-wire Serial             | 1.7~3.6V | WLCSP4                                         | 24SA128   |
| BL25CM1A   | 1024K bits                   | Serial Peripheral Interface | 2.8~5.5V | DIP8 SOP8 WLCSP8                               | 25CM1     |
| BL25CM2A   | 2048K bits                   | Serial Peripheral Interface | 2.8~5.5V | DIP8 SOP8 WLCSP8                               | 25CM2     |
| BL34C02A   | 2K bits                      | Two-wire Serial             | 1.7~3.6V | TSSOP8 UDFN8                                   | 34C02     |
| BL34C04A   | 4K bits                      | Two-wire Serial             | 1.7~3.6V | UDFN8                                          | 34C04     |
| BL34TS04A  | 4K bits + Temperature Sensor | Two-wire Serial             | 1.7~3.6V | UDFN8                                          | 34TS04    |



## ADC/DAC 数据转换器

| Part No.          | Features                                                                   | SNR                                             | SFDR                                            | Power  | Interface              | Package             |
|-------------------|----------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|--------|------------------------|---------------------|
| <b>BLAD16D80</b>  | 16bit 80 MS/s 1.8V Dual Channel ADC                                        | 77.5dBFS @10MHz input<br>65.3dBFS @300MHz input | 90.0dBC @10MHz input<br>78.0dBC @300MHz input   | 477mW  | CMOS/LVDS              | QFN64               |
| <b>BLAD16D125</b> | 16bit 125 MS/s 1.8V Dual Channel ADC                                       | 77.5dBFS @10MHz input<br>66.0dBFS @300MHz input | 90.0dBC @10MHz input<br>76.0dBC @300MHz input   | 796mW  | CMOS/LVDS              | QFN64               |
| <b>BLAD14Q80</b>  | 14bit 80 MS/s 1.8V Quad Channel ADC                                        | 72.6dBFS @10MHz input<br>68.5dBFS @200MHz input | 85.5dBFS @10MHz input<br>70.5dBFS @200MHz input | 525mW  | Serial-LVDS            | QFN48               |
| <b>BLAD14Q125</b> | 14bit 125 MS/s 1.8V Quad Channel ADC                                       | 72.3dBFS @10MHz input<br>68.0dBFS @305MHz input | 85.0dBC @10MHz input<br>70.0dBC @305MHz input   | 600mW  | Serial-LVDS            | QFN48               |
| <b>BLAD16Q125</b> | 16bit 125 MS/s 1.8V Quad Channel ADC                                       | 78.6dBFS @10MHz input<br>72.8dBFS @305MHz input | 90.0dBC @10MHz input<br>75.0dBC @305MHz input   | 620mW  | Serial-LVDS            | QFN48               |
| <b>BLAD16Q80</b>  | 16bit 80MS/s 1.8V Quad Channel ADC                                         | 78.6dBFS @10MHz input<br>72.8dBFS @305MHz input | 90.0dBC @10MHz input<br>75.0dBC @305MHz input   | 531mW  | Serial-LVDS            | QFN48               |
| <b>BL1040</b>     | 14bit 80 MS/s 1.8V Dual Channel ADC                                        | 76.5dBFS @10MHz input<br>70.4dBFS @200MHz input | 88.0dBC @10MHz input<br>79.6dBC @200MHz input   | 477mW  | CMOS/LVDS              | QFN64               |
| <b>BL1063</b>     | 16bit 125 MS/s 1.8V Quad Channel ADC                                       | 81.1dBFS @10MHz input<br>72.9dBFS @305MHz input | 81.1dBFS @10MHz input<br>72.9dBFS @305MHz input | 832mW  | JESD204B               | QFN56               |
| <b>BL1064</b>     | 16bit 80 MS/s 1.8V/3.3V Dual ADC                                           | 76.6dBFS @10MHz input<br>72.5dBFS @200MHz input | 85.5dBFS @10MHz input<br>79.5dBFS @200MHz input | 525mW  | CMOS                   | QFN64               |
| <b>BL1045</b>     | 8 Channel 14bit 125 MS/s 1.8V ADC                                          | 72.6dBFS @10MHz input<br>68.8dBFS @305MHz input | 85.0dBC @10MHz input<br>70.0dBC @305MHz input   | 1.25W  | Serial-LVDS            | BGA196              |
| <b>BL1065</b>     | 8 Channel 16bit 125 MS/s 1.8V ADC                                          | 78.6dBFS @10MHz input<br>72.8dBFS @305MHz input | 90.0dBC @10MHz input<br>75.0dBC @305MHz input   | 1.25W  | Serial-LVDS            | BGA196              |
| <b>BL1081</b>     | 8 Channel 16 bits 100KS/s Simultaneous Sampling Data Acquisition System    | 88.0dBFS @1KHz input                            | 105dBFS @1KHz input                             | 150mW  | SPI/Parallel           | LQFP64              |
| <b>BL1082</b>     | 8 Channel 16 bits 200KS/s Simultaneous Sampling Data Acquisition System    | 87.0dBFS @1KHz input                            | 105dBFS @1KHz input                             | 165mW  | SPI/Parallel           | LQFP64              |
| <b>BL1083</b>     | 8 Channel 16bit 200KS/s Simultaneous Sampling Data Acquisition System, CRC | 87.0dBFS @1KHz input                            | 105dBFS @1KHz input                             | 165mW  | SPI/Parallel           | LQFP64              |
| <b>BL1086</b>     | 4 Channel 16 bits 320KS/s Simultaneous Sampling Data Acquisition System    | 87.0dBFS @1KHz input                            | 105dBFS @1KHz input                             | 128mW  | SPI/Parallel           | LQFP64              |
| <b>BL1087</b>     | 8 Channel 16bit 500KS/s Data Acquisition System                            | 87.0dBFS @1KHz input                            | 103dBFS @1KHz input                             | 90mW   | SPI                    | TSSOP38             |
| <b>BL1088</b>     | 16 Channel 16bits 1MS/s Simultaneous Sampling Data Acquisition System      | 88.0dBFS @1KHz input                            | 103dBFS @1KHz input                             | 300mW  | SPI/ Parallel With CRC | LQFP80              |
| <b>BL1080</b>     | 18bits 2MS/s SAR ADC                                                       | 95.0dBFS @1KHz input                            | 110dBFS @1KHz input                             | 30mW   | SPI/Parallel           | QFN48               |
| <b>BL1022</b>     | 12bit 1Msps 16 Channel ADC                                                 | 71.70dBFS @100KHz input                         | 84dBFS @100KHz input                            | 14.5mW | SPI                    | TSSOP38             |
| <b>BL1031</b>     | 2 Channel 16bits 250MS/s DAC                                               | -160dBm/Hz NSD                                  | 80.0dBc @20MHz output                           | 400mW  | CMOS                   | QFN72               |
| <b>BL1032</b>     | 16bit, Voltage Output DAC, R String With Unipolar/Bipolar Operation        | 85dBFS @1KHz input                              | 86dBFS @1KHz input                              | 0.6mW  | SPI                    | QFN14 SOP14<br>SOP8 |
| <b>BL1033</b>     | 16bit, Voltage Output DAC, R String                                        | 84dBFS @1KHz input                              | 86dBFS @1KHz input                              | 0.6mW  | SPI                    | VSSOP8              |



## Voltage References 电压基准源

| Part No.      | Features                         | Output | Input     | Temp Range  | Temperature Drift       | Initial Accuracy | Noise  | Package |
|---------------|----------------------------------|--------|-----------|-------------|-------------------------|------------------|--------|---------|
| <b>BLR120</b> | High Precision Voltage Reference | 2.048V | 12V Max.  | -40°C~125°C | 5ppm Typical 10ppm Max. | 0.05%            | 16μVpp | SOIC8   |
| <b>BLR125</b> | High Precision Voltage Reference | 2.5V   | 12V Max.  | -40°C~125°C | 5ppm Typical 10ppm Max. | 0.05%            | 20μVpp | SOIC8   |
| <b>BLR133</b> | High Precision Voltage Reference | 3.3V   | 12V Max.  | -40°C~125°C | 5ppm Typical 10ppm Max. | 0.05%            | 24μVpp | SOIC8   |
| <b>BLR140</b> | High Precision Voltage Reference | 4.096V | 12V Max.  | -40°C~125°C | 5ppm Typical 10ppm Max. | 0.05%            | 30μVpp | SOIC8   |
| <b>BLR150</b> | High Precision Voltage Reference | 5.0V   | 12V Max.  | -40°C~125°C | 5ppm Typical 10ppm Max. | 0.05%            | 37μVpp | SOIC8   |
| <b>BLR220</b> | High Precision Voltage Reference | 2.048V | 5.5V Max. | -40°C~125°C | 3ppm Typical 8ppm Max.  | 0.02%            | 16μVpp | SOIC8   |
| <b>BLR225</b> | High Precision Voltage Reference | 2.5V   | 5.5V Max. | -40°C~125°C | 3ppm Typical 8ppm Max.  | 0.02%            | 18μVpp | SOIC8   |
| <b>BLR230</b> | High Precision Voltage Reference | 3.0V   | 5.5V Max. | -40°C~125°C | 3ppm Typical 8ppm Max.  | 0.02%            | 22μVpp | SOIC8   |
| <b>BLR233</b> | High Precision Voltage Reference | 3.3V   | 5.5V Max. | -40°C~125°C | 3ppm Typical 8ppm Max.  | 0.02%            | 25μVpp | SOIC8   |
| <b>BLR240</b> | High Precision Voltage Reference | 4.096V | 5.5V Max. | -40°C~125°C | 3ppm Typical 8ppm Max.  | 0.02%            | 29μVpp | SOIC8   |
| <b>BLR250</b> | High Precision Voltage Reference | 5.0V   | 5.5V Max. | -40°C~125°C | 3ppm Typical 8ppm Max.  | 0.02%            | 35μVpp | SOIC8   |



# MOSFET 金属氧化物半导体场效应晶体管

## Double Trench MOSFET (双沟槽场效应晶体管)

| Part No.        | BV(V) | Id(A) | R <sub>DS(ON)</sub> (mΩ)@V <sub>GS</sub> = 10V |      | R <sub>DS(ON)</sub> (mΩ)@V <sub>GS</sub> = 4.5V |      | V <sub>TH</sub> (V) |      |      | Package             |
|-----------------|-------|-------|------------------------------------------------|------|-------------------------------------------------|------|---------------------|------|------|---------------------|
|                 |       |       | Typ.                                           | Max. | Typ.                                            | Max. | Min.                | Typ. | Max. |                     |
| BLP14N08L-D     | 80    | 37    | 12.5                                           | 15   | 17.8                                            | 22.5 | 1.0                 | 1.8  | 2.5  | TO252               |
| BLP14N08L-Q     | 80    | 35    | 13.8                                           | 16.5 | 19                                              | 24   | 1.0                 | 1.8  | 2.5  | PDFN5×6             |
| BLP039N08-Q     | 80    | 116   | 3.6                                            | 3.9  | -                                               | -    | 2.0                 | 3.0  | 4.0  | PDFN5×6             |
| BLP039N08-P/B   | 80    | 146   | 3.9                                            | 4.5  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP036N08-Q     | 80    | 155   | 3.2                                            | 3.6  | -                                               | -    | 2.0                 | 3.0  | 4.0  | PDFN5×6             |
| BLP026N08-P/B   | 80    | 237   | 2.1                                            | 2.6  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP022N08-T     | 80    | -     | 1.7                                            | 2.2  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TOLL8               |
| BLP018N08-P/B   | 80    | -     | 1.6                                            | 1.8  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP012N08T      | 80    | 413   | 1.1                                            | 1.4  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TOLL8               |
| BLP065N08G-Q    | 85    | 102   | 5.8                                            | 6.5  | -                                               | -    | 2.0                 | 3.0  | 4.0  | PDFN5×6             |
| BLP065N08G-D    | 85    | 105   | 5.4                                            | 6.5  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO252               |
| BLP065N08G-P/B  | 85    | 118   | 5.4                                            | 6.5  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP065N08GL-Q   | 85    | 109   | 5.2                                            | 6.0  | 7.5                                             | 8.5  | 1.0                 | 1.8  | 2.5  | PDFN5×6             |
| BLP065N08GL-D   | 85    | 116   | 4.7                                            | 5.5  | 6.3                                             | 7.5  | 1.0                 | 1.8  | 2.5  | TO252               |
| BLP065N08GL-E   | 85    | 30    | 5.2                                            | 6.0  | 7.5                                             | 8.5  | 1.0                 | 1.8  | 2.5  | SOP8                |
| BLP055N09G-P/B  | 90    | 131   | 5.0                                            | 5.5  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP05N08G-Q     | 85    | 105   | 4.5                                            | 5.0  | -                                               | -    | 2.0                 | 3.0  | 4.0  | PDFN5×6             |
| BLP05N08G-P/B   | 85    | 138   | 4.4                                            | 5.0  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP04N08-P/B/BA | 85    | 185   | 3.0                                            | 3.6  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263 TO263-7 |
| BLP032N08-T     | 85    | 200   | 2.6                                            | 3.2  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TOLL8               |
| BLP03N08-P/B    | 85    | 230   | 2.3                                            | 3.0  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP03N08-F      | 85    | 275   | 2.3                                            | 3.0  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO247               |
| BLP03N08-BA/T   | 85    | 253   | 1.9                                            | 2.5  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO263 -7 TOLL8      |
| BLP02N08-P/B    | 85    | 326   | 1.6                                            | 2.0  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO220 TO263         |
| BLP02N08-F      | 85    | 349   | 1.6                                            | 2.0  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO247-7             |
| BLP02N08-BA     | 85    | 349   | 1.4                                            | 1.8  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TO263               |
| BLP02N08-T      | 85    | 371   | 1.2                                            | 1.5  | -                                               | -    | 2.0                 | 3.0  | 4.0  | TOLL8               |
| BLP20N10L-E     | 100   | 6.0   | 16.5                                           | 20   | 25                                              | 28   | 1.0                 | 1.8  | 2.5  | SOP8                |
| BLP20N10L-D     | 100   | 30    | 16                                             | 20   | 25                                              | 28   | 1.0                 | 1.8  | 2.5  | TO252               |



# Double Trench MOSFET (双沟槽场效应晶体管)

| Part No.        | BV(V) | Id(A) | RDS(ON) (mΩ)@VGS = 10V |      | RDS(ON) (mΩ)@VGS = 4.5V |      | VTH (V) |      |      | Package       |
|-----------------|-------|-------|------------------------|------|-------------------------|------|---------|------|------|---------------|
|                 |       |       | Typ.                   | Max. | Typ.                    | Max. | Min.    | Typ. | Max. |               |
| BLP20N10L-Q     | 100   | 30    | 17                     | 20   | 25                      | 28   | 1.0     | 1.8  | 2.5  | PDFN5×6       |
| BLP12N10G-D/Q   | 100   | 49    | 10.5                   | 12   | -                       | -    | 2.0     | 3.0  | 4.0  | TO252 PDFN5×6 |
| BLP12N10G-E     | 100   | 11    | 10.5                   | 12   | -                       | -    | 2.0     | 3.0  | 4.0  | SOP8          |
| BLP12N10G-P     | 100   | 55    | 10.5                   | 12   | -                       | -    | 2.0     | 3.0  | 4.0  | TO220         |
| BLP12N10G-A     | 100   | 35    | 10.5                   | 12   | -                       | -    | 2.0     | 3.0  | 4.0  | TO220F        |
| BLP12N10GL-D    | 100   | 56    | 9.5                    | 12   | 15                      | 18   | 1.0     | 1.8  | 2.5  | TO252         |
| BLP12N10GL-Q    | 100   | 56    | 10                     | 12   | 15                      | 18   | 1.0     | 1.8  | 2.5  | PDFN5×6       |
| BLP12N10GL-E    | 100   | 15    | 10                     | 12   | 15.5                    | 18   | 1.0     | 1.8  | 2.5  | SOP8          |
| BLP08N10G-D/Q   | 100   | 66    | 7.5                    | 8.0  | -                       | -    | 2.0     | 3.0  | 4.0  | TO252 PDFN5×6 |
| BLP08N10G-P     | 100   | 71    | 7.5                    | 8.0  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220         |
| BLP075N10G-P/B  | 100   | 95    | 6.3                    | 7.5  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP075N10G-D/Q  | 100   | 86    | 6.3                    | 7.5  | -                       | -    | 2.0     | 3.0  | 4.0  | TO252 PDFN5×6 |
| BLP075N10GL-P/B | 100   | 72    | 7.0                    | 7.5  | 10                      | 12   | 1.0     | 1.8  | 2.5  | TO220 TO263   |
| BLP075N10GL-D/Q | 100   | 68    | 7.0                    | 7.5  | 10                      | 12   | 1.0     | 1.8  | 2.5  | TO252 PDFN5×6 |
| BLP065N10GL-D/Q | 100   | 87    | 6.0                    | 6.5  | 8.2                     | 9.5  | 1.0     | 1.8  | 2.5  | TO252 PDFN5×6 |
| BLP065N10GL-P   | 100   | 96    | 6.0                    | 6.5  | 8.2                     | 9.5  | 1.0     | 1.8  | 2.5  | TO220         |
| BLP055N10-P/B   | 100   | 127   | 4.8                    | 5.5  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP055N10-Q     | 100   | 98    | 4.8                    | 5.5  | -                       | -    | 2.0     | 3.0  | 4.0  | PDFN5×6       |
| BLP045N10-P/B   | 100   | 170   | 3.6                    | 4.5  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP045N10-A     | 100   | -     | 3.6                    | 4.5  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220F        |
| BLP03N10-P/B    | 100   | 200   | 2.7                    | 3.0  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP03N10-BA/T   | 100   | 216   | 2.3                    | 3.0  | -                       | -    | 2.0     | 3.0  | 4.0  | TO263-7 TOLL8 |
| BLP03N10-F      | 100   | 239   | 2.7                    | 3.0  | -                       | -    | 2.0     | 3.0  | 4.0  | TO247         |
| BLP038N10GL-D   | 100   | 154   | 3.3                    | 3.8  | 4.5                     | 6.0  | 1.0     | 1.8  | 2.5  | TO252         |
| BLP042N10G-P/B  | 100   | -     | 3.6                    | 4.2  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP04N10-P/B    | 100   | 172   | 3.3                    | 4.0  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP028N10-P/B   | 100   | 213   | 2.4                    | 2.8  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP024N10-T/BA  | 100   | 223   | 2.0                    | 2.4  | -                       | -    | 2.0     | 3.0  | 4.0  | TOLL8 TO263-7 |
| BLP025N10-P/B   | 100   | 261   | 2.0                    | 2.5  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263   |
| BLP022N10-BA    | 100   | 292   | 1.6                    | 2.2  | -                       | -    | 2.0     | 3.0  | 4.0  | TO263-7       |
| BLP021N10-T     | 100   | 256   | 1.6                    | 2.1  | -                       | -    | 2.0     | 3.0  | 4.0  | TOLL8         |



## Double Trench MOSFET (双沟槽场效应晶体管)

| Part No.      | BV(V) | Id(A) | RDS(ON) (mΩ)@VGS = 10V |      | RDS(ON) (mΩ)@VGS = 4.5V |      | VTH (V) |      |      | Package     |
|---------------|-------|-------|------------------------|------|-------------------------|------|---------|------|------|-------------|
|               |       |       | Typ.                   | Max. | Typ.                    | Max. | Min.    | Typ. | Max. |             |
| BLP023N10-P/B | 100   | 305   | 1.8                    | 2.3  | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263 |
| BLP023N10-BA  | 100   | 320   | 1.6                    | 2.0  | -                       | -    | 2.0     | 3.0  | 4.0  | TO263-7     |
| BLP023N10-F   | 100   | 364   | 1.8                    | 2.3  | -                       | -    | 2.0     | 3.0  | 4.0  | TO247       |
| BLP023N10-T   | 100   | 326   | 1.4                    | 1.8  | -                       | -    | 2.0     | 3.0  | 4.0  | TOLL8       |
| BLP014N10-T   | 100   | 401   | 1.25                   | 1.4  | -                       | -    | 2.0     | 3.0  | 4.0  | TOLL8       |
| BLP018N10-F   | 100   | -     | 1.6                    | 1.8  | -                       | -    | 2.0     | 3.0  | 4.0  | TO247       |
| BLP042N15J-B  | 150   | -     | 3.6                    | 4.2  | -                       | -    | 2.0     | 3.0  | 4.0  | TO263       |

## Trench MOSFET (沟槽场效应晶体管)

| Part No.  | BV(V) | Id(A) | RDS(ON) (mΩ)@VGS = 10V |      | RDS(ON) (mΩ)@VGS = 4.5V |      | RDS(ON) (mΩ)@VGS = 2.5V |      | VTH (V) |      |      | Package     |
|-----------|-------|-------|------------------------|------|-------------------------|------|-------------------------|------|---------|------|------|-------------|
|           |       |       | Typ.                   | Max. | Typ.                    | Max. | Typ.                    | Max. | Min.    | Typ. | Max. |             |
| BLM8205B  | 20    | 6.0   | -                      | -    | 16                      | 22   | 19                      | 27   | 0.5     | 0.7  | 1.2  | TSSOP8      |
| BLM3400   | 30    | 5.8   | 31                     | 41   | 34                      | 45   | 45                      | 59   | 0.7     | 0.9  | 1.4  | SOT23       |
| BLM3404   | 30    | 5.8   | 25.5                   | 31   | 36                      | 43   | -                       | -    | 1.2     | 1.6  | 2.4  | SOT23       |
| BLM12N03  | 30    | 20    | 10                     | 13   | 16                      | 22.5 | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM10N03  | 30    | 40    | 7.6                    | 10   | 11.5                    | 17   | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM075N03 | 30    | 50    | 5.8                    | 7.5  | 10                      | 14   | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM06N03  | 30    | 70    | 4.8                    | 6.0  | 7.5                     | 12   | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM04N03  | 30    | 90    | 3.0                    | 4.5  | 5.0                     | 8.0  | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM039N03 | 30    | 100   | 2.9                    | 4.0  | 4.8                     | 6.5  | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM03N03  | 30    | 150   | 2.5                    | 3.0  | 4.2                     | 6.0  | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM024N03 | 30    | 180   | 5.8                    | 2.4  | 3.5                     | 5.0  | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM28N04  | 40    | 6.0   | 22.5                   | 29   | 28.5                    | 40.5 | -                       | -    | 0.8     | 1.3  | 1.8  | PDFN3.3×3.3 |
| BLM24N04  | 40    | 9.0   | 18.5                   | 23.5 | 26.5                    | 36.5 | -                       | -    | 0.8     | 1.3  | 1.8  | SOP8        |
| BLM17N04  | 40    | 30    | 12.5                   | 17   | 16                      | 25   | -                       | -    | 0.8     | 1.3  | 1.8  | TO252       |
| BLM075N04 | 40    | 60    | 5.6                    | 7.5  | 8.0                     | 12   | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM055N04 | 40    | 80    | 4.2                    | 5.5  | 6.5                     | 10   | -                       | -    | 1.0     | 1.9  | 2.4  | TO252       |
| BLM30N06L | 60    | 20    | 25                     | 30   | 35                      | 60   | -                       | -    | 1.0     | 1.5  | 2.4  | TO252       |
| BLM15N06L | 60    | 60    | 11                     | 15   | 15                      | 25   | -                       | -    | 1.0     | 1.5  | 2.4  | TO252       |
| BLM15N06  | 60    | 60    | 11                     | 15   | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO252       |
| BLM12N06L | 60    | 70    | 9.0                    | 12   | 13                      | 20   | -                       | -    | 1.0     | 1.5  | 2.4  | TO252       |



## Trench MOSFET (沟槽场效应晶体管)

| Part No.  | BV(V) | Id(A) | RDS(ON) (mΩ)@VGS = 10V |      | RDS(ON) (mΩ)@VGS = 4.5V |      | RDS(ON) (mΩ)@VGS = 2.5V |      | VTH (V) |      |      | Package                        |
|-----------|-------|-------|------------------------|------|-------------------------|------|-------------------------|------|---------|------|------|--------------------------------|
|           |       |       | Typ.                   | Max. | Typ.                    | Max. | Typ.                    | Max. | Min.    | Typ. | Max. |                                |
| BLM12N06  | 60    | 70    | 9.0                    | 12   | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO252                          |
| BLM08N06  | 60    | 80    | 7.0                    | 8.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM07N06  | 60    | 95    | 6.0                    | 7.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252 TO263              |
| BLM04N06  | 60    | 150   | 3.5                    | 4.2  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263                    |
| BLM09N68  | 68    | 70    | 8.0                    | 9.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM08N68  | 68    | 90    | 7.0                    | 8.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM14N08  | 80    | 60    | 12                     | 14   | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM12N08  | 80    | 70    | 9.0                    | 12   | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252 TO263              |
| BLM06N08  | 80    | 140   | 4.9                    | 6.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263                    |
| BLM04N08  | 80    | 200   | 3.0                    | 4.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263                    |
| BLM90N10L | 100   | 10    | 80                     | 90   | 100                     | 140  | -                       | -    | 1.0     | 1.5  | 2.4  | TO252                          |
| BLM35N10L | 100   | 20    | 28                     | 35   | 40                      | 60   | -                       | -    | 1.0     | 1.5  | 2.4  | TO220 TO252                    |
| BLM35N10  | 100   | 20    | 28                     | 35   | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM30N10L | 100   | 25    | 23                     | 30   | 35                      | 55   | -                       | -    | 1.0     | 1.5  | 2.4  | TO220 TO252                    |
| BLM30N10  | 100   | 25    | 23                     | 30   | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM22N10  | 100   | 50    | 18                     | 22   | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM16N10  | 100   | 60    | 14.5                   | 16.5 | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO252                    |
| BLM08N10  | 100   | 110   | 7.0                    | 8.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263                    |
| BLM06N10  | 100   | 180   | 5.0                    | 6.0  | -                       | -    | -                       | -    | 2.0     | 3.0  | 4.0  | TO220 TO263                    |
| BLM2301   | -20   | -3.0  | -                      | -    | 46                      | 70   | 62                      | 100  | -0.4    | -0.7 | -1.0 | SOT23                          |
| BLM2305   | -20   | -4.1  | -                      | -    | 43                      | 52   | 58                      | 75   | -0.45   | -0.7 | -1.0 | SOT23                          |
| BLM08P02  | -20   | -40   | 6.0                    | 8.0  | 7.0                     | 9.0  | -                       | -    | -0.4    | -0.7 | -1.0 | PDFN3.3×3.3 SOP8               |
| BLM3407   | -30   | -4.1  | 46                     | 65   | 65                      | 95   | -                       | -    | -1.0    | -1.5 | -2.4 | SOT23                          |
| BLM3401   | -30   | -4.2  | 50                     | 55   | 64                      | 72   | 95                      | 120  | -0.7    | -1.0 | -1.3 | SOT23                          |
| BLM4953   | -30   | -5.1  | 48                     | 60   | 73                      | 105  | -                       | -    | -1.0    | -1.5 | -2.4 | SOP8(Dual)                     |
| BLM9435   | -30   | -5.1  | 48                     | 55   | 73                      | 105  | -                       | -    | -1.0    | -1.5 | -2.4 | SOP8                           |
| BLM4435   | -30   | -9.1  | 15                     | 20   | 21                      | 35   | -                       | -    | -1.0    | -1.5 | -2.4 | SOP8                           |
| BLM4407   | -30   | -20   | 11.5                   | 15   | 18                      | 25   | -                       | -    | -1.0    | -1.5 | -2.4 | SOP8                           |
| BLM12P03  | -30   | -20   | 11.5                   | 15   | 18                      | 25   | -                       | -    | -1.0    | -1.5 | -2.4 | PDFN3.3×3.3 TO251              |
| BLM10P03  | -30   | -24   | 8.0                    | 10   | 11                      | 13   | -                       | -    | -1.0    | -1.5 | -2.4 | TO252 SOP8 PDFN3.3×3.3 PDFN5×6 |



## Trench MOSFET (沟槽场效应晶体管)

| Part No. | BV(V) | Id(A) | R <sub>DS(ON)</sub> (mΩ)@V <sub>GS</sub> = 10V |      | R <sub>DS(ON)</sub> (mΩ)@V <sub>GS</sub> =4.5V |      | R <sub>DS(ON)</sub> (mΩ)@V <sub>GS</sub> =2.5V |      | V <sub>TH</sub> (V) |      |      | Package                         |
|----------|-------|-------|------------------------------------------------|------|------------------------------------------------|------|------------------------------------------------|------|---------------------|------|------|---------------------------------|
|          |       |       | Typ.                                           | Max. | Typ.                                           | Max. | Typ.                                           | Max. | Min.                | Typ. | Max. |                                 |
| BLM40P04 | -40   | -15   | 29                                             | 35   | 34                                             | 45   | -                                              | -    | -1.0                | -1.5 | -2.4 | TO252 SOP8 TO251 PDFN3.3×3.3    |
| BLM30P04 | -40   | -20   | 23                                             | 27   | 28                                             | 37   | -                                              | -    | -1.0                | -1.5 | -2.4 | TO252 TO251 PDFN3.3×3.3 PDFN5×6 |
| BLM15P04 | -40   | -40   | 11                                             | 15   | 14                                             | 20   | -                                              | -    | -1.0                | -1.5 | -2.4 | TO252 SOP8 PDFN5×6              |
| BLM78P10 | -100  | -20   | 75                                             | 90   | 85                                             | 100  | -                                              | -    | -1.0                | -1.8 | -2.4 | TO220 TO252                     |

## High Voltage Super Junction MOSFET (高压超结型场效应晶体管)

| Part No.    | V <sub>DSS</sub> (V) | Id(A) | R <sub>DS(ON)</sub> (Ω)@V <sub>GS</sub> = 10V |       | V <sub>GS(th)</sub> (V) |      |      | Package                         |
|-------------|----------------------|-------|-----------------------------------------------|-------|-------------------------|------|------|---------------------------------|
|             |                      |       | Typ.                                          | Max.  | Min.                    | Typ. | Max. |                                 |
| BLS60R520   | 600                  | 8.0   | 0.47                                          | 0.52  | 3.0                     | 3.5  | 4.0  | TO220 TO220F TO251 TO252        |
| BLS60R360   | 600                  | 11    | 0.31                                          | 0.36  | 2.5                     | 3.0  | 3.5  | TO220 TO220F TO251 TO252        |
| BLS60R380F  | 600                  | 11    | 0.32                                          | 0.38  | 3.5                     | 4.0  | 4.5  | TO220 TO220F TO251 TO252        |
| BLS60R150   | 600                  | 25.3  | 0.126                                         | 0.15  | 3.0                     | 3.5  | 4.0  | TO220 TO220F TO247 TO3PN        |
| BLS60R150F  | 600                  | 23    | 0.13                                          | 0.15  | 3.5                     | 4.0  | 4.5  | TO220 TO220F TO247 TO3PN        |
| BLS60R036   | 600                  | 75    | 0.032                                         | 0.036 | 3.5                     | 4.0  | 4.5  | TO247 TO3PN                     |
| BLS60R600EF | 600                  | 7.0   | 0.55                                          | 0.6   | 3.5                     | 4.0  | 4.5  | TO220 TO220F TO251 TO252        |
| BLS60R560EF | 600                  | 8.0   | 0.52                                          | 0.56  | 3.5                     | 4.0  | 4.5  | TO220 TO220F TO251 TO252        |
| BLS65R560   | 650                  | 8.0   | 0.5                                           | 0.56  | 3.0                     | 3.5  | 4.0  | TO220 TO220F TO251 TO252        |
| BLS65R380   | 650                  | 11    | 0.33                                          | 0.38  | 2.5                     | 3.0  | 3.5  | TO220 TO220F TO251 TO252        |
| BLS65R165   | 650                  | 24    | 0.135                                         | 0.17  | 3.0                     | 3.5  | 4.0  | TO220 TO220F TO247 TO3PN        |
| BLS65R041F  | 650                  | 70    | 0.035                                         | 0.041 | 3.5                     | 4.0  | 4.5  | TO247 TO3PN                     |
| BLS70R600   | 700                  | 8.0   | 0.54                                          | 0.6   | 3.0                     | 3.5  | 4.0  | TO220 TO220F TO251 TO252        |
| BLS70R420   | 700                  | 11    | 0.35                                          | 0.42  | 2.5                     | 3.0  | 3.5  | TO220 TO220F TO251 TO252        |
| BLS70R180   | 700                  | 23    | 0.15                                          | 0.18  | 3.0                     | 3.5  | 4.0  | TO220 TO220F TO247 TO3PN        |
| BLS80R760   | 800                  | 10    | 0.58                                          | 0.76  | 2.5                     | 3.0  | 3.5  | TO220 TO220F TO251 TO252        |
| BLS80R990   | 800                  | 7.0   | 0.92                                          | 0.99  | 2.5                     | 3.0  | 3.5  | TO220 TO220F TO251 TO252        |
| BLS80R1K0E  | 800                  | 7.0   | 0.95                                          | 1.0   | 2.5                     | 3.0  | 3.5  | TO220 TO220F TO251 TO252 SOT223 |



## High Voltage Planar MOSFET (高压平面型场效应晶体管)

| Part No.  | V <sub>DSS</sub> (V) | I <sub>D</sub> (A) | R <sub>DS(ON)</sub> (Ω) @ V <sub>GS</sub> = 10V |       | V <sub>GS(th)</sub> (V) |      |      | Package                  |
|-----------|----------------------|--------------------|-------------------------------------------------|-------|-------------------------|------|------|--------------------------|
|           |                      |                    | Typ.                                            | Max.  | Min.                    | Typ. | Max. |                          |
| BL36N12L  | 120                  | 36                 | 0.05                                            | 0.06  | 1.5                     | 2.0  | 2.5  | TO251 TO252              |
| BL25N15L  | 150                  | 25                 | 0.075                                           | 0.09  | 0.4                     | 0.6  | 1.3  | TO251 TO252              |
| BL25N15BL | 150                  | 25                 | 0.065                                           | 0.08  | 1.5                     | 2.0  | 2.5  | TO251 TO252              |
| BS108     | 200                  | 0.3                | -                                               | 5.0   | 0.4                     | -    | 1.8  | TO92                     |
| BL9N20L   | 200                  | 9.0                | 0.27                                            | 0.32  | 1.0                     | 1.5  | 2.0  | TO251 TO252              |
| BL9N20    | 200                  | 9.0                | 0.26                                            | 0.32  | 2.0                     | 3.0  | 4.0  | TO251 TO252              |
| BL15N20   | 200                  | 15                 | 0.14                                            | 0.2   | 2.0                     | 3.0  | 4.0  | TO251 TO252              |
| BL18N20L  | 200                  | 18                 | 0.13                                            | 0.18  | 1.5                     | 2.0  | 2.5  | TO220F TO220 TO251 TO252 |
| BL18N20   | 200                  | 18                 | 0.13                                            | 0.18  | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL30N20   | 200                  | 30                 | 0.075                                           | 0.085 | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL30N20B  | 200                  | 30                 | 0.07                                            | 0.08  | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL70N20B  | 200                  | 70                 | 0.028                                           | 0.035 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL80N20BL | 200                  | 80                 | 0.02                                            | 0.025 | 0.4                     | 0.6  | 1.3  | TO247 TO3PN              |
| BL80N20B  | 200                  | 80                 | 0.019                                           | 0.023 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL80N20L  | 200                  | 80                 | 0.022                                           | 0.028 | 0.4                     | 0.6  | 1.3  | TO247 TO3PN              |
| BL80N20   | 200                  | 80                 | 0.022                                           | 0.028 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL9N25    | 250                  | 9.0                | 0.32                                            | 0.4   | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL13N25L  | 250                  | 13                 | 0.17                                            | 0.21  | 1.5                     | 2.0  | 2.5  | TO220F TO220 TO251 TO252 |
| BL13N25   | 250                  | 13                 | 0.23                                            | 0.28  | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL15N25   | 250                  | 15                 | 0.19                                            | 0.23  | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL18N25   | 250                  | 18                 | 0.16                                            | 0.2   | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL28N25   | 250                  | 28                 | 0.13                                            | 0.16  | 2.0                     | 3.0  | 4.0  | TO220F TO220 TO251 TO252 |
| BL33N25B  | 250                  | 33                 | 0.1                                             | 0.13  | 2.0                     | 3.0  | 4.0  | TO220F TO220             |
| BL33N25   | 250                  | 33                 | 0.11                                            | 0.15  | 2.0                     | 3.0  | 4.0  | TO220F TO220             |
| BL40N25B  | 250                  | 40                 | 0.06                                            | 0.07  | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL40N25   | 250                  | 40                 | 0.065                                           | 0.08  | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL60N25B  | 250                  | 60                 | 0.038                                           | 0.045 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL60N25   | 250                  | 60                 | 0.042                                           | 0.05  | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |



## High Voltage Planar MOSFET (高压平面型场效应晶体管)

| Part No. | V <sub>DSS</sub> (V) | I <sub>D</sub> (A) | R <sub>DS(ON)</sub> (Ω)@V <sub>GS</sub> =10V |       | V <sub>GS(th)</sub> (V) |      |       | Package                   |
|----------|----------------------|--------------------|----------------------------------------------|-------|-------------------------|------|-------|---------------------------|
|          |                      |                    | Typ .                                        | Max . | Min .                   | Typ. | Max . |                           |
| BL90N25B | 250                  | 90                 | 0.025                                        | 0.03  | 2.0                     | 3.0  | 4.0   | TO247 TO3PN               |
| BL90N25  | 250                  | 90                 | 0.027                                        | 0.032 | 2.0                     | 3.0  | 4.0   | TO247 TO3PN               |
| BL13N30  | 300                  | 13                 | 0.21                                         | 0.25  | 2.0                     | 3.0  | 4.0   | TO220F TO220 TO251 TO252  |
| BL30N30  | 300                  | 30                 | 0.11                                         | 0.14  | 2.0                     | 3.0  | 4.0   | TO220 TO220F TO263        |
| BL40N30L | 300                  | 40                 | 0.1                                          | 0.12  | 0.4                     | 0.6  | 1.3   | TO247 TO3PN               |
| BL40N30  | 300                  | 40                 | 0.08                                         | 0.11  | 2.0                     | 3.0  | 4.0   | TO247 TO3PN               |
| BL50N30  | 300                  | 50                 | 0.053                                        | 0.063 | 2.0                     | 3.0  | 4.0   | TO247 TO3PN               |
| BL59N30  | 300                  | 59                 | 0.032                                        | 0.041 | 2.0                     | 3.0  | 4.0   | TO247 TO3PN               |
| BL6N40L  | 400                  | 6.0                | 0.75                                         | 0.9   | 0.4                     | 0.6  | 1.3   | TO251 TO252 TO220F TO220  |
| BL6N40   | 400                  | 6.0                | 0.75                                         | 0.9   | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220F TO220  |
| BL10N40  | 400                  | 10                 | 0.4                                          | 0.46  | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220F TO220  |
| BL11N40  | 400                  | 11                 | 0.36                                         | 0.43  | 2.0                     | 3.0  | 4.0   | TO220F TO220 TO251 TO252  |
| BL19N40  | 400                  | 19                 | 0.22                                         | 0.27  | 2.0                     | 3.0  | 4.0   | TO220F TO220              |
| BL25N40  | 400                  | 25                 | 0.135                                        | 0.27  | 2.0                     | 3.0  | 4.0   | TO220F TO220 TO247 TO3PN  |
| BL35N40  | 400                  | 35                 | 0.09                                         | 0.11  | 2.0                     | 3.0  | 4.0   | TO247 TO3PN               |
| BL2N50   | 500                  | 2.0                | 2.5                                          | 3.0   | 2.0                     | 3.0  | 4.0   | TO220F TO220 TO251 TO252  |
| BL5N50   | 500                  | 5.0                | 1.31                                         | 1.57  | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220F TO220  |
| BL5N50A  | 500                  | 5.0                | 1.45                                         | 1.75  | 2.0                     | 3.0  | 4.0   | TO251 TO2 52 TO220F TO220 |
| BL8N50   | 500                  | 8.0                | 0.73                                         | 0.88  | 2.0                     | 3.0  | 4.0   | TO220F TO220 TO251 TO252  |
| BL8N50C  | 500                  | 8.0                | 0.6                                          | 0.72  | 2.0                     | 3.0  | 4.0   | TO220F TO220 TO251 TO252  |
| BL9N50   | 500                  | 9.0                | 0.57                                         | 0.7   | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220 TO220F  |
| BL12N50  | 500                  | 12                 | 0.52                                         | 0.62  | 2.0                     | 3.0  | 4.0   | TO220 TO220F              |
| BL13N50  | 500                  | 13                 | 0.48                                         | 0.55  | 2.0                     | 3.0  | 4.0   | TO220 TO220F              |
| BL15N50  | 500                  | 15                 | 0.27                                         | 0.36  | 2.0                     | 3.0  | 4.0   | TO220 TO220F              |
| BL20N50  | 500                  | 20                 | 0.21                                         | 0.28  | 2.0                     | 3.0  | 4.0   | TO220 TO220F TO3PF TO3PN  |
| BL23N50  | 500                  | 23                 | 0.22                                         | 0.27  | 2.0                     | 3.0  | 4.0   | TO220F TO220 TO3PN TO3PF  |
| BL25N50  | 500                  | 25                 | 0.17                                         | 0.21  | 2.0                     | 3.0  | 4.0   | TO3PF TO3PN               |
| BL30N50  | 500                  | 30                 | 0.09                                         | 0.12  | 2.0                     | 3.0  | 4.0   | TO247 TO3PN               |



## High Voltage Planar MOSFET (高压平面型场效应晶体管)

| Part No. | V <sub>DSS</sub> (V) | I <sub>D</sub> (A) | R <sub>DS(ON)</sub> (Ω)@V <sub>GS</sub> =10V |      | V <sub>GS(th)</sub> (V) |      |      | Package                  |
|----------|----------------------|--------------------|----------------------------------------------|------|-------------------------|------|------|--------------------------|
|          |                      |                    | Typ.                                         | Max. | Min.                    | Typ. | Max. |                          |
| BL2N60   | 600                  | 2.0                | 3.5                                          | 4.0  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL4N60A  | 600                  | 4.0                | 2.2                                          | 2.6  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL4N60   | 600                  | 4.0                | 1.7                                          | 2.0  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL7N60A  | 600                  | 7.0                | 1.0                                          | 1.25 | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL8N60   | 600                  | 8.0                | 0.85                                         | 1.0  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL10N60A | 600                  | 10                 | 0.62                                         | 0.75 | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL10N60  | 600                  | 10                 | 0.47                                         | 0.6  | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL12N60A | 600                  | 12                 | 0.46                                         | 0.56 | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL12N60  | 600                  | 12                 | 0.4                                          | 0.5  | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL20N60  | 600                  | 20                 | 0.33                                         | 0.4  | 2.0                     | 3.0  | 4.0  | TO220 TO220F TO247 TO3PN |
| BL25N60  | 600                  | 25                 | 0.21                                         | 0.26 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL30N60  | 600                  | 30                 | 0.11                                         | 0.15 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL2N65   | 650                  | 2.0                | 4.5                                          | 5.4  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL4N65A  | 650                  | 4.0                | 2.4                                          | 2.9  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL4N65   | 650                  | 4.0                | 2.0                                          | 2.6  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL7N65   | 650                  | 7.0                | 1.0                                          | 1.25 | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL7N65A  | 650                  | 7.0                | 1.28                                         | 1.55 | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL7N65B  | 650                  | 7.0                | 1.0                                          | 1.25 | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL8N65   | 650                  | 8.0                | 0.98                                         | 1.2  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL10N65A | 650                  | 10                 | 0.87                                         | 1.0  | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL10N65  | 650                  | 10                 | 0.62                                         | 0.75 | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL12N65A | 650                  | 12                 | 0.58                                         | 0.73 | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL12N65  | 650                  | 12                 | 0.5                                          | 0.62 | 2.0                     | 3.0  | 4.0  | TO220 TO220F             |
| BL20N65  | 650                  | 20                 | 0.39                                         | 0.46 | 2.0                     | 3.0  | 4.0  | TO220 TO220F TO247 TO3PN |
| BL25N65  | 650                  | 25                 | 0.25                                         | 0.28 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL30N65  | 650                  | 30                 | 0.15                                         | 0.18 | 2.0                     | 3.0  | 4.0  | TO247 TO3PN              |
| BL2N70   | 700                  | 2.0                | 5.0                                          | 6.0  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |
| BL4N70   | 700                  | 4.0                | 2.4                                          | 2.8  | 2.0                     | 3.0  | 4.0  | TO251 TO252 TO220 TO220F |



## High Voltage Planar MOSFET (高压平面型场效应晶体管)

| Part No. | V <sub>DSS</sub> (V) | I <sub>D</sub> (A) | R <sub>DS(ON)</sub> (Ω)@V <sub>GS</sub> = 10V |      | V <sub>GS(th)</sub> (V) |      |       | Package                        |
|----------|----------------------|--------------------|-----------------------------------------------|------|-------------------------|------|-------|--------------------------------|
|          |                      |                    | Typ.                                          | Max. | Min.                    | Typ. | Max.  |                                |
| BL4N70A  | 700                  | 4.0                | 2.7                                           | 3.2  | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220 TO220F       |
| BL6N70A  | 700                  | 6.0                | 1.6                                           | 1.9  | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220 TO220F       |
| BL7N70A  | 700                  | 7.0                | 1.1                                           | 1.3  | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220 TO220F       |
| BL7N70   | 700                  | 7.0                | 1.2                                           | 1.4  | 2.0                     | 3.0  | 4.0   | TO251 TO252 TO220 TO220F       |
| BL10N70A | 700                  | 10                 | 1.0                                           | 1.2  | 2.0                     | 3.0  | 4.0   | TO220 TO220F                   |
| BL10N70  | 700                  | 10                 | 0.7                                           | 0.85 | 2.0                     | 3.0  | 4.0   | TO220 TO220F                   |
| BL12N70A | 700                  | 12                 | 0.66                                          | 0.8  | 2.0                     | 3.0  | 4.0   | TO220 TO220F                   |
| BL12N70  | 700                  | 12                 | 0.58                                          | 0.7  | 2.0                     | 3.0  | 4.0   | TO220 TO220F                   |
| BL4N80A  | 800                  | 3.5                | 3.6                                           | 4.3  | 2.8                     | -    | 4.2   | TO220 TO220F TO252 TO251       |
| BL4N80   | 800                  | 4.0                | 2.3                                           | 2.8  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO251 TO252       |
| BL4N80E  | 800                  | 4.0                | 4.47                                          | 5.3  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO251 TO252       |
| BL10N80  | 800                  | 10                 | 0.72                                          | 0.9  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO3PN TO3PF TO247 |
| BL3N90   | 900                  | 3.0                | 3.9                                           | 4.5  | 2.8                     | -    | 4.2   | TO220 TO220F TO252 TO251       |
| BL3N90E  | 900                  | 3.0                | 4.8                                           | 5.5  | 3.0                     | 3.5  | 4.0   | TO220F TO251 TO252             |
| BL4N90   | 900                  | 4.0                | 2.6                                           | 3.0  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO251 TO252       |
| BL9N90   | 900                  | 9.0                | 0.83                                          | 1.0  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO3PN TO3PF TO247 |
| BL2N100  | 1000                 | 2.0                | 5.2                                           | 6.0  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO3PN TO3PF TO247 |
| BL3N100  | 1000                 | 3.0                | 3.5                                           | 4.2  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO251 TO252       |
| BL3N100E | 1000                 | 2.5                | 6.2                                           | 7.5  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO251 TO252       |
| BL8N100  | 1000                 | 8.0                | 1.1                                           | 1.3  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO3PN TO3PF TO247 |
| BL3N105  | 1050                 | 3.0                | 4.0                                           | 4.8  | 3.0                     | 3.5  | 4.0   | TO220 TO220F TO251 TO252       |
| BL3N120  | 1200                 | 3.0                | 5.0                                           | 6.0  | 3.0                     | 4.0  | 5.0   | TO220 TO220F TO251 TO252       |
| BL4N120  | 1200                 | 4.0                | 2.9                                           | 3.5  | 3.0                     | 4.0  | 5.0   | TO220 TO220F TO247 TO3PF TO3PN |
| BL6N120  | 1200                 | 6.0                | 2.3                                           | 2.9  | 3.0                     | 4.0  | 5.0   | TO220 TO220F TO247 TO3PF TO3PN |
| BL5N135  | 1350                 | 5.0                | 3.0                                           | 3.6  | 3.0                     | 4.0  | 5.0   | TO220 TO220F TO3PN TO3PF TO247 |
| BL2N150  | 1500                 | 2.0                | 8.0                                           | 10   | 3.0                     | 4.0  | 5.0   | TO220 TO220F TO251 TO252       |
| BL3N150  | 1500                 | 3.0                | 5.8                                           | 8.0  | 3.0                     | 4.0  | 5.0   | TO220 TO220F TO247 TO3PF TO3PN |
| BL4N150  | 1500                 | 4.0                | 4.0                                           | 5.5  | 3.0                     | 4.0  | 5.0   | TO220 TO220F TO247 TO3PF TO3PN |
| BSP304   | -300                 | 0.17               | -                                             | 17   | -1.7                    | -    | -2.55 | TO92                           |



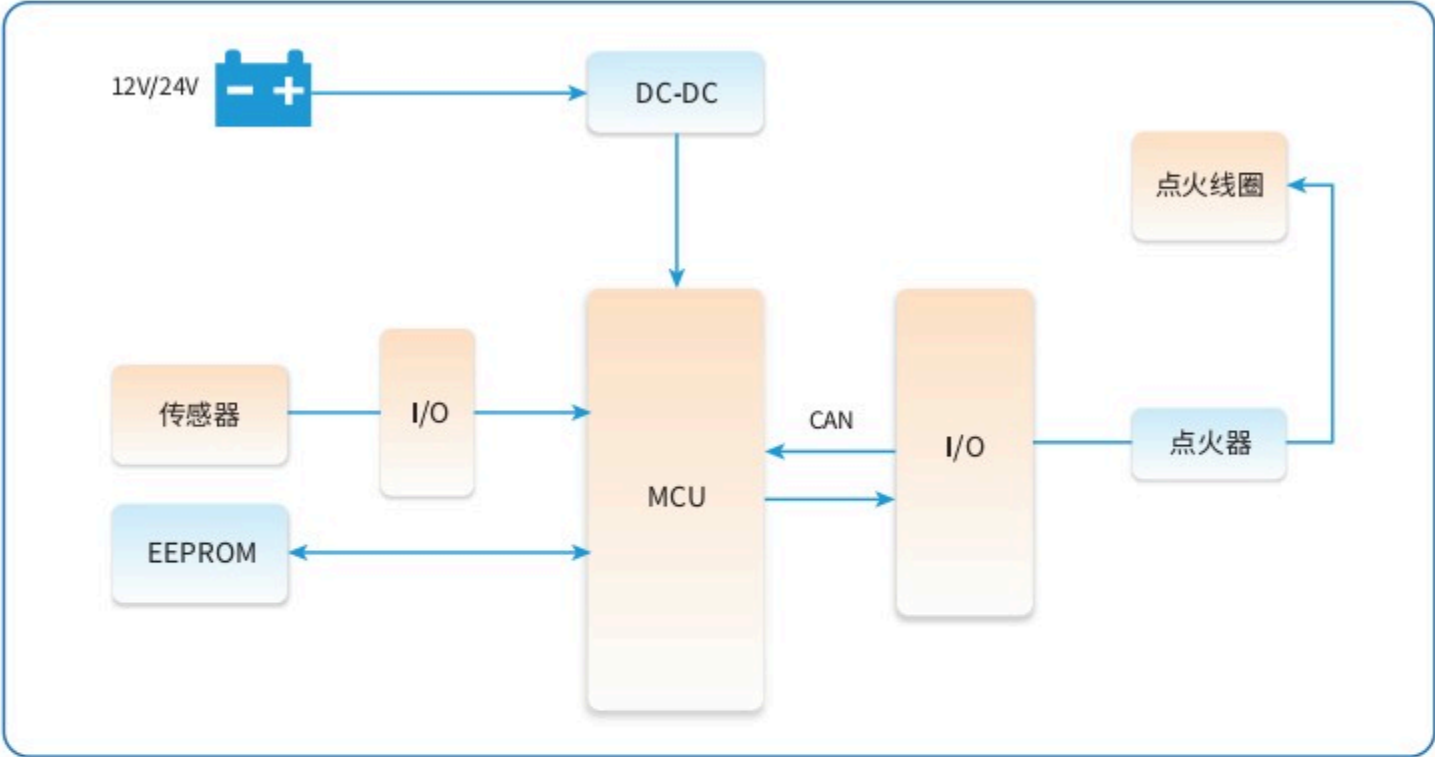
# IGBT 绝缘栅双极晶体管

| Part No.           | BV <sub>CES</sub> (V) | I <sub>C</sub> (A) | V <sub>CE(sat)</sub> (V) |      | V <sub>GS(th)</sub> (V) |      |      | T <sub>don</sub> (ns) | Tr(ns) | T <sub>doff</sub> (ns) | T <sub>f</sub> (ns) | E <sub>on</sub> (mJ) | E <sub>off</sub> (mJ) | Package            |
|--------------------|-----------------------|--------------------|--------------------------|------|-------------------------|------|------|-----------------------|--------|------------------------|---------------------|----------------------|-----------------------|--------------------|
|                    |                       |                    | Typ.                     | Max. | Min.                    | Typ. | Max. | Typ.                  | Typ.   | Typ.                   | Typ.                | Typ.                 | Typ.                  |                    |
| BLG3040-D/B/I      | 400                   | 17                 | 1.3                      | 1.6  | 1.3                     | 1.8  | 2.2  | -                     | -      | -                      | -                   | -                    | -                     | TO252 TO262 TO263  |
| BLG10T65FUL-D      | 650                   | 10                 | 1.4                      | 1.8  | 4.4                     | 5.2  | 6.0  | 7.0                   | 12     | 15                     | 102                 | 0.17                 | 0.14                  | TO252              |
| BLG15T65FUA-A/B/P  | 650                   | 15                 | 1.55                     | 1.95 | 4.4                     | 5.2  | 6.0  | 10                    | 15     | 17                     | 234                 | 0.25                 | 0.2                   | TO220 TO220F TO263 |
| BLG15T65FUL-A/B/P  | 650                   | 15                 | 1.4                      | 1.8  | 5.0                     | 5.8  | 6.5  | 11                    | 14     | 66                     | 99                  | 0.21                 | 0.26                  | TO220 TO220F TO263 |
| BLG20T65FULA-A/P/F | 650                   | 20                 | 1.55                     | 1.95 | 5.0                     | 5.8  | 6.5  | 12                    | 17     | 36                     | 136                 | 0.28                 | 0.28                  | TO220 TO220F TO247 |
| BLG40T65FUK-W/F/K  | 650                   | 40                 | 1.55                     | 1.95 | 4.7                     | 5.5  | 6.2  | 19                    | 35     | 90                     | 26                  | 0.6                  | 0.38                  | TO3PN TO247 TO3PF  |
| BLG40T65FDK-F/W    | 650                   | 40                 | 1.55                     | 1.95 | 4.7                     | 5.5  | 6.2  | 19                    | 35     | 90                     | 26                  | 0.6                  | 0.38                  | TO247 TO3PN        |
| BLG40T65FDL-W/F/K  | 650                   | 40                 | 1.45                     | 1.85 | 4.7                     | 5.5  | 6.2  | 20                    | 33     | 112                    | 66                  | 0.65                 | 0.68                  | TO3PN TO247 TO3PF  |
| BLG40T65FUL-W/F    | 650                   | 40                 | 1.45                     | 1.85 | 4.7                     | 5.5  | 6.2  | 20                    | 33     | 112                    | 66                  | 0.65                 | 0.68                  | TO3PN TO247        |
| BLQG50T65FKA-F     | 650                   | 40                 | 1.65                     | 2.0  | 4.7                     | 5.5  | 6.2  | 21                    | 50     | 88                     | 35                  | 0.8                  | 0.5                   | TO247              |
| BLQG50T65FCKA-F    | 650                   | 40                 | 1.65                     | 2.0  | 4.7                     | 5.5  | 6.2  | 22                    | 30     | 86                     | 35                  | 0.6                  | 0.5                   | TO247              |
| BLQG50T65FDLA-F    | 650                   | 50                 | 1.6                      | 2.0  | 4.7                     | 5.5  | 6.2  | 22                    | 44     | 102                    | 59                  | 0.98                 | 0.81                  | TO247              |
| BLG50T65FDLA-W/F/K | 650                   | 50                 | 1.6                      | 2.0  | 4.7                     | 5.5  | 6.2  | 22                    | 44     | 102                    | 59                  | 0.98                 | 0.81                  | TO247              |
| BLG60T65FUL-W/F/K  | 650                   | 60                 | 1.6                      | 2.0  | 4.7                     | 5.5  | 6.2  | 40                    | 47     | 123                    | 90                  | 1.2                  | 1.5                   | TO3PN TO247 TO3PF  |
| BLG60T65FDL-W/F/K  | 650                   | 60                 | 1.6                      | 2.0  | 4.7                     | 5.5  | 6.2  | 40                    | 47     | 123                    | 90                  | 1.2                  | 1.5                   | TO3PN TO247 TO3PF  |
| BLG60T65FDK-W/F/K  | 650                   | 60                 | 1.7                      | 2.1  | 4.7                     | 5.5  | 6.2  | 37                    | 41     | 130                    | 26                  | 1.39                 | 1.06                  | TO3PN TO247 TO3PF  |
| BLG75T65FDL-F      | 650                   | 75                 | 1.7                      | 2.1  | 4.7                     | 5.5  | 6.2  | 32                    | 74     | 114                    | 73                  | 1.14                 | 1.53                  | TO247              |
| BLG75T65FUK-F      | 650                   | 75                 | 2.0                      | 2.4  | 4.7                     | 5.5  | 6.2  | 29                    | 66     | 110                    | 58                  | 1.25                 | 1.1                   | TO247              |
| BLG75T65FDK-F      | 650                   | 75                 | 2.0                      | 2.4  | 4.7                     | 5.5  | 6.2  | 29                    | 66     | 110                    | 58                  | 1.25                 | 1.1                   | TO247              |
| BLG40T120FUH-F     | 1200                  | 40                 | 2.0                      | 2.4  | 5.0                     | 5.8  | 6.5  | 45                    | 81     | 295                    | 40                  | 3.5                  | 1.1                   | TO247              |
| BLG40T120FDH-F     | 1200                  | 40                 | 2.0                      | 2.4  | 5.0                     | 5.8  | 6.5  | 45                    | 81     | 295                    | 40                  | 3.5                  | 1.1                   | TO247              |
| BLG40T120FUK-F     | 1200                  | 40                 | 2.35                     | 2.75 | 5.0                     | 5.8  | 6.5  | 49                    | 96     | 254                    | 32                  | 4.1                  | 0.85                  | TO247              |
| BLG200T120         | 1200                  | 200                | 1.8                      | 2.2  | 5.0                     | 5.8  | 6.5  | 585                   | 85     | 725                    | 110                 | 5.25                 | 16.36                 | Modular Chip       |

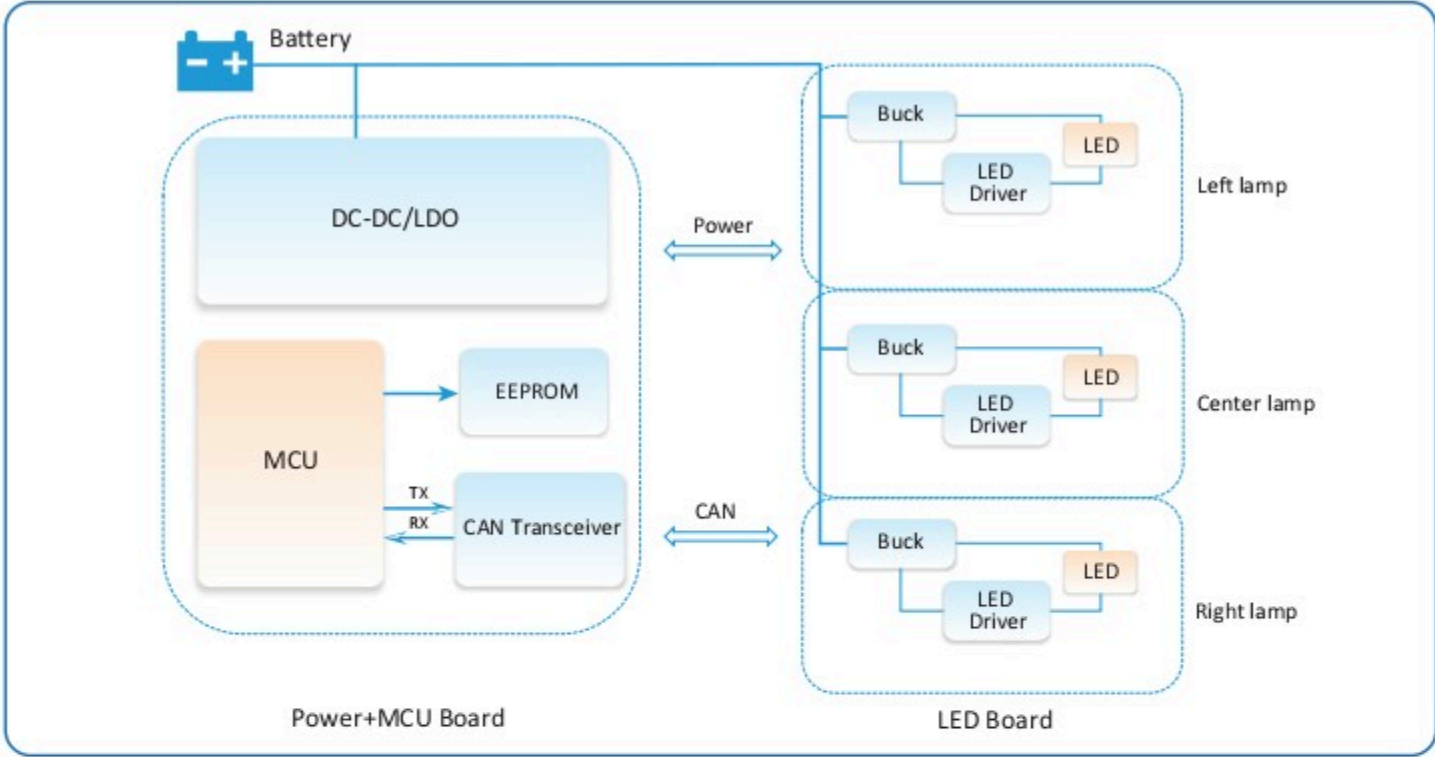


Belling Solutions 贝岭解决方案

Automobile Igniter (汽车点火器)



Automobile Headlight (汽车车灯)

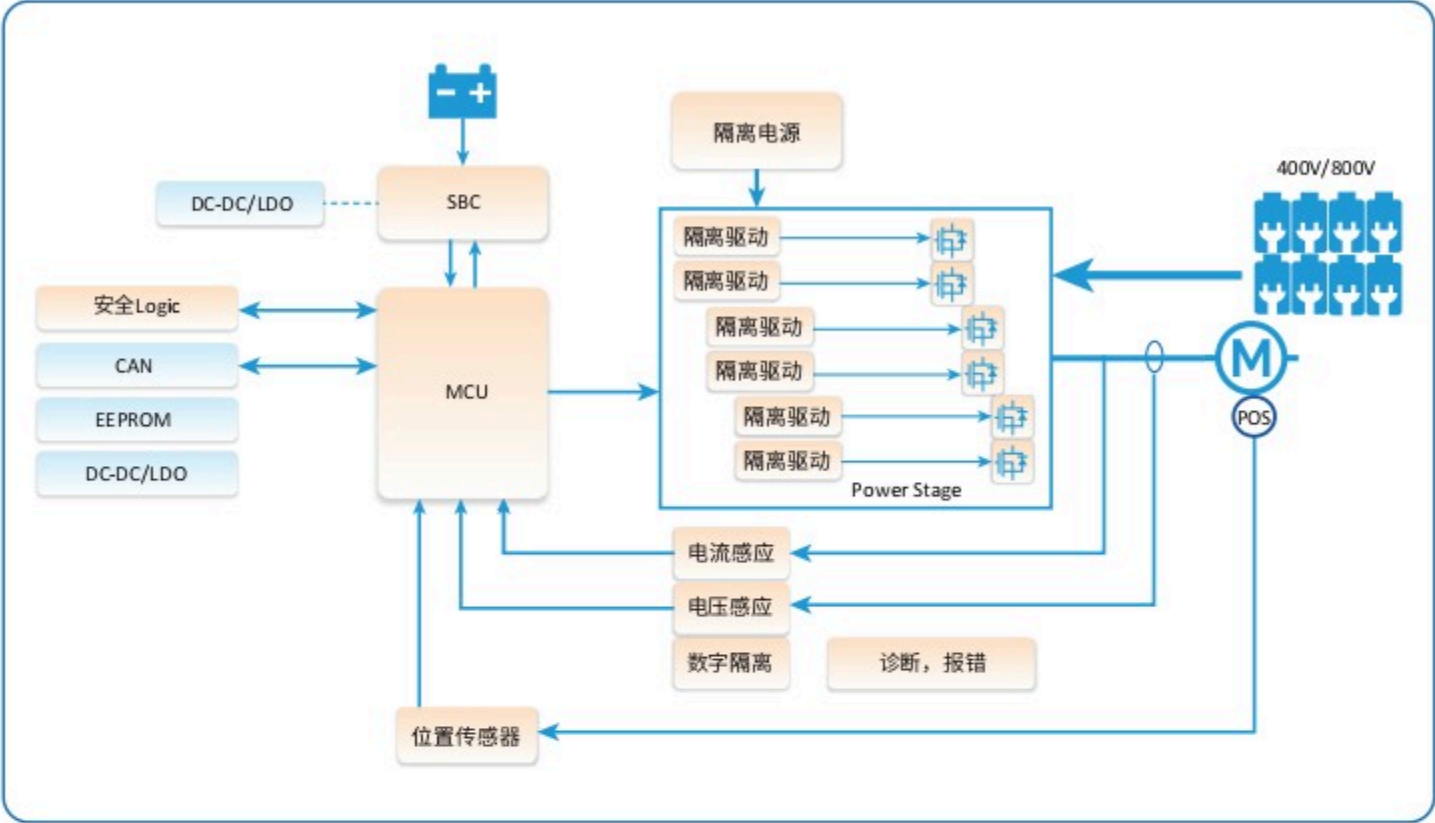


| Category           | Part No.        | Features                                                                                                             | Package                       |
|--------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Op-Amp             | MEQ2902/MEQ2904 | 2/4-channel operational amplifier                                                                                    | SOP8                          |
| IGBT               | BLG3040         | Automotive ignition IGBT                                                                                             | TO252 TO263                   |
| Comparator         | MEQ2901/MEQ2903 | 2/4-channel Voltage Comparator                                                                                       | SOP8                          |
| LDO                | BL8078Q         | 40V/150mA Low Consumption Voltage Regulator                                                                          | SOP8                          |
|                    | ME6233          | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3 5-pin SOT23-5 |
|                    | ME6234          | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT89-3                       |
|                    | ME6261          | 60V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3               |
|                    | MEB78M05        | 36V/500mA, Bipolar High Speed, LDO, Acc: ±1%                                                                         | TO252-2                       |
| DC-DC              | BLL2741Q        | 35V, 4A CV and Dual CC Step-Down DC/DC Converter                                                                     | ESOP8                         |
|                    | BL9352A         | 45V, 0.6A Step-Down DC/DC Converter                                                                                  | SOT23-6                       |
|                    | BL9362          | 60V, 0.6A, Step-Down DC/DC Converter                                                                                 | SOT23-6                       |
| CAN<br>(2023~2024) |                 | ±58V Withstand Voltage, CAN FD Transceiver, Support 3~5.5V MCU, With System Power Control (INH) And Wake-up Function |                               |

| Category           | Part No.        | Features                                                                                                             | Package                                     |
|--------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| LDO                | BL8078Q         | 40V/150mA Low Consumption Voltage Regulator                                                                          | SOP8                                        |
|                    | MEQ6310         | 6V 150mA Low Drop and Low Noise Voltage Regulators                                                                   | SOT23-5                                     |
|                    | BL1117          | 18V/1A LDO                                                                                                           | SOT223 TO252                                |
|                    | BL78L05G        | 3-TERMINAL 36V/100mA Voltage Regulator                                                                               | SOT89-3                                     |
|                    | ME6301          | 6.5V/250mA Ultra-low Noise, High PSRR LDO                                                                            | DFN1X1-4L 5-pin SOT23-5                     |
|                    | ME6230          | 6.5V/400mA, Enabled, Low Power, High Accuracy, High PSRR LDO                                                         | SOT23-3 SOT89-3 FBP1x1-4L DFN1x1-4L SOT23-5 |
|                    | ME6232          | 6.5V/400mA, Enabled, 1.4µA IQ, High Accuracy, High PSRR LDO                                                          | SOT23-5                                     |
|                    | ME6233          | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3 5-pin SOT23-5               |
|                    | ME6234          | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT89-3                                     |
|                    | ME6261          | 60V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3                             |
| EEPROM             | BL24CXXA        | 2K~2048K EEPROM                                                                                                      | SOP8 TSSOP8 DFN2x2-8L                       |
| DC-DC              | BLL2741Q        | 35V, 4A CV and Dual CC Step-Down DC/DC Converter                                                                     | ESOP-8                                      |
|                    | BL9352A         | 45V, 0.6A Step-Down DC/DC Converter                                                                                  | SOT23-6                                     |
|                    | BL9362          | 60V, 0.6A, Step-Down DC/DC Converter                                                                                 | SOT23-6                                     |
|                    | ME3108          | 5.5V, 2A COT Synchronous Step-Down DC/DC Converter                                                                   | SOT23-5 SOT23-6                             |
|                    | ME3109          | 5.5V, 3A COT Synchronous Step-Down DC/DC Converter                                                                   | DFN2x2-6L                                   |
| LED Driver         | MEDS92630       | Three-channel Linear LED Driver With PWM Dimming Function                                                            | ETSSOP16                                    |
|                    | BLL2770         | 40V Synchronous Constant Current LED Driver                                                                          | SOP8                                        |
|                    | BLL2771         | 70V Synchronous Constant Current LED Driver                                                                          | QFN5x5-14L                                  |
| Op-Amp             | MEQ2902/MEQ2904 | 2/4-Channel Operational Amplifier                                                                                    | SOP8                                        |
| Comparator         | MEQ2901/MEQ2903 | 2/4-Channel Voltage Comparator                                                                                       | SOP8                                        |
| MOSFET             |                 | LV Trench, SGT MOSFET                                                                                                | TO220 TO252                                 |
| CAN<br>(2023~2024) |                 | ±58V Withstand Voltage, CAN FD Transceiver, Support 3~5.5V MCU, With System Power Control (INH) And Wake-up Function |                                             |

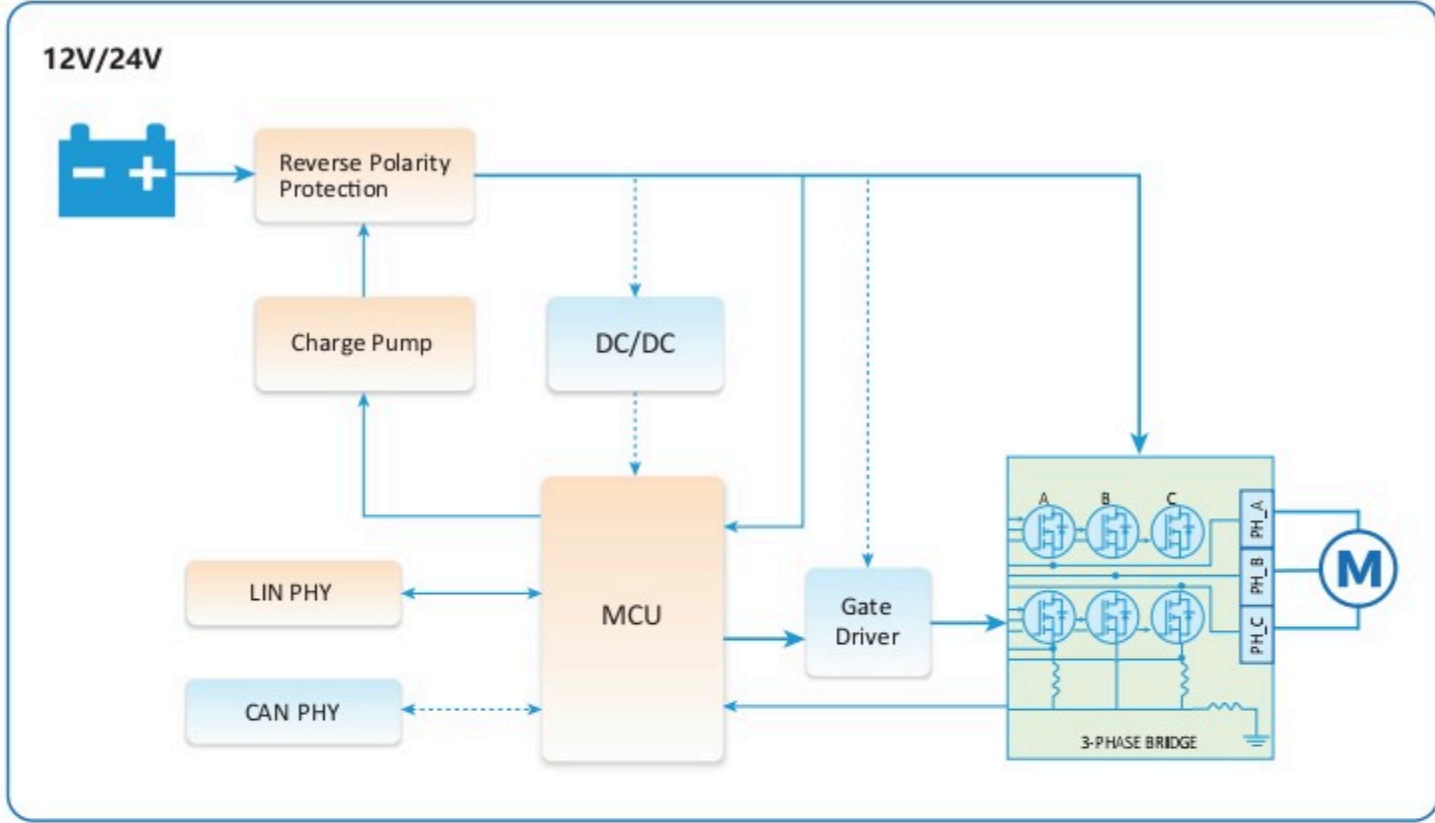


Automobile Main Drive Motor Control (汽车主驱电机控制)



| Category        | Part No.   | Features                                                                                                             | Package                       |
|-----------------|------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------|
| LDO             | BL8078Q    | 40V/150mA Low Consumption Voltage Regulator                                                                          | SOP8                          |
|                 | MEQ6310    | 6V 150mA low drop and low noise voltage regulators                                                                   | SOT23-5                       |
|                 | BL1117     | 18V/1A LDO                                                                                                           | SOT223 TO252                  |
|                 | BL78L05G   | 3-TERMINAL 36V/100mA Voltage Regulator                                                                               | SOT89-3                       |
|                 | ME6233     | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3 5-pin SOT23-5 |
|                 | ME6234     | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT89-3                       |
|                 | ME6261     | 60V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3               |
| EEPROM          | BL24CXXA   | 2K~2048K EEPROM                                                                                                      | SOP8 TSSOP8 DFN2x2-8L         |
| DC-DC           | BLL2741Q   | 35V, 4A CV and Dual CC Step-Down DC/DC Converter                                                                     | ESOP8                         |
|                 | BL9352A    | 45V, 0.6A Step-Down DC/DC Converter                                                                                  | SOT23-6                       |
|                 | BL9362     | 60V, 0.6A, Step-Down DC/DC Converter                                                                                 | SOT23-6                       |
| MOSFET          | BLP065N08G | 85V 6.6mΩ SGT MOS                                                                                                    | DFN5x6, TO252, TO220, TO263   |
|                 | BLQM15N06L | 60V15mΩ trench NMOS                                                                                                  | TO252                         |
|                 | BLQM30N06L | 60V30mΩ trench NMOS                                                                                                  | TO252                         |
|                 | BL3N150    | 1500V high voltage planar NMOS                                                                                       | TO220 TO247 TO3PF TO3PN       |
| CAN (2023~2024) |            | ±58V Withstand Voltage, CAN FD Transceiver, Support 3~5.5V MCU, With System Power Control (INH) And Wake-up Function |                               |

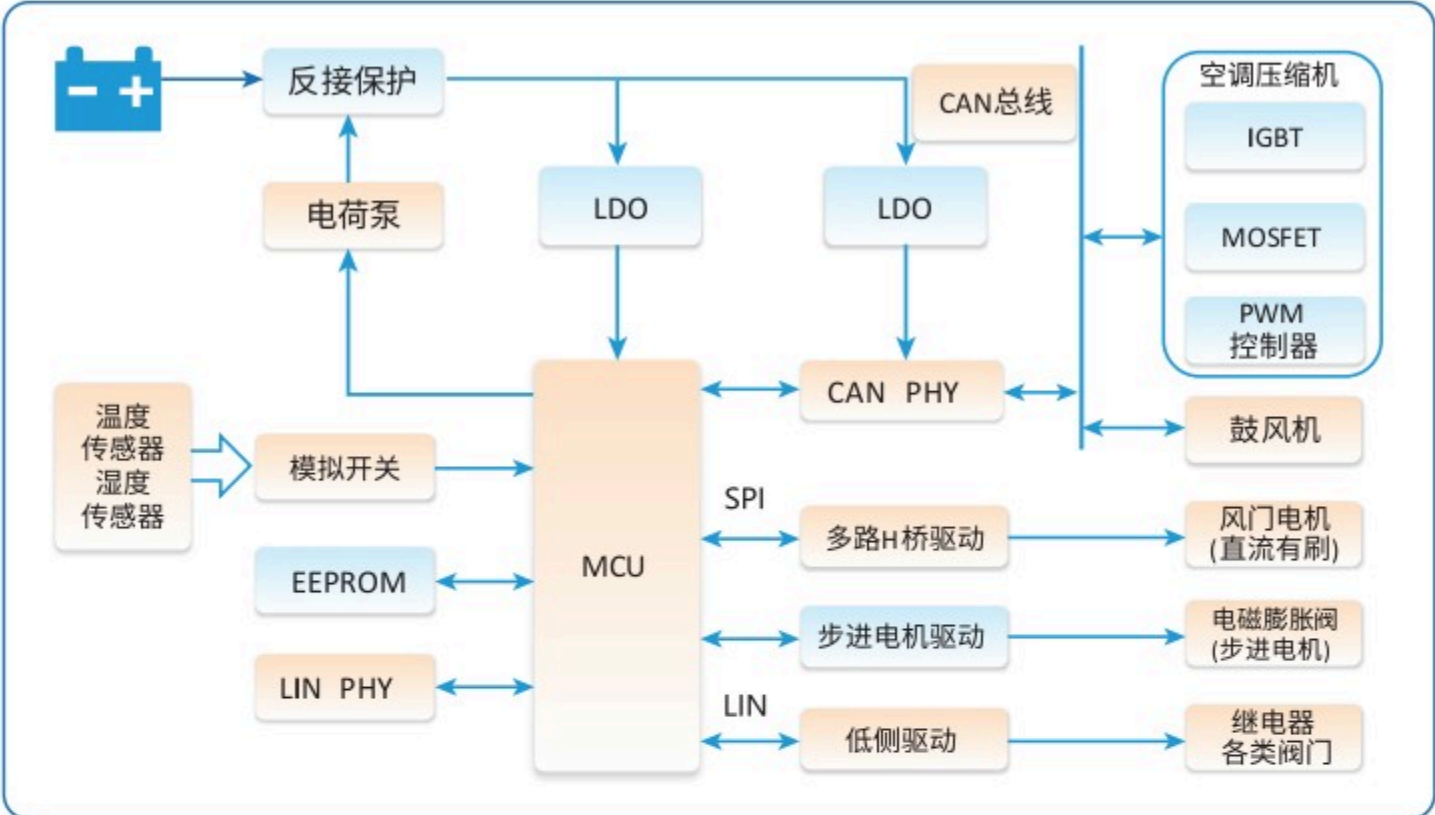
Automobile Electronic Oil/water Pump Driver (汽车电子油泵水泵驱动)



| Category                | Part No.  | Features                                                                | Package                    |
|-------------------------|-----------|-------------------------------------------------------------------------|----------------------------|
| DC-DC                   | BLL2741Q  | 35V, 4A CV and Dual CC Step-Down DC/DC Converter                        | ESOP8                      |
|                         | BL9352A   | 45V, 0.6A Step-Down DC/DC Converter                                     | SOT23-6                    |
|                         | BL9362    | 60V, 0.6A, Step-Down DC/DC Converter                                    | SOT23-6                    |
| MOSFET                  | BLQM07N06 | 60V 95A Trench NMOS                                                     | TO252-2                    |
|                         | BLQM08N06 | 60V 80A Trench NMOS                                                     | TO252-2                    |
|                         | BLP12N10G | 100V 50A SGT MOS                                                        | TO220F TO252 DFN5x6 DFN5x6 |
| CAN (2023~2024)         |           | ±58V Withstand Voltage, CAN FD Transceiver, Support 3~5.5V MCU, Wake-up |                            |
| Gate Driver (2023~2024) |           | High-Side and Low-Side Driver                                           |                            |

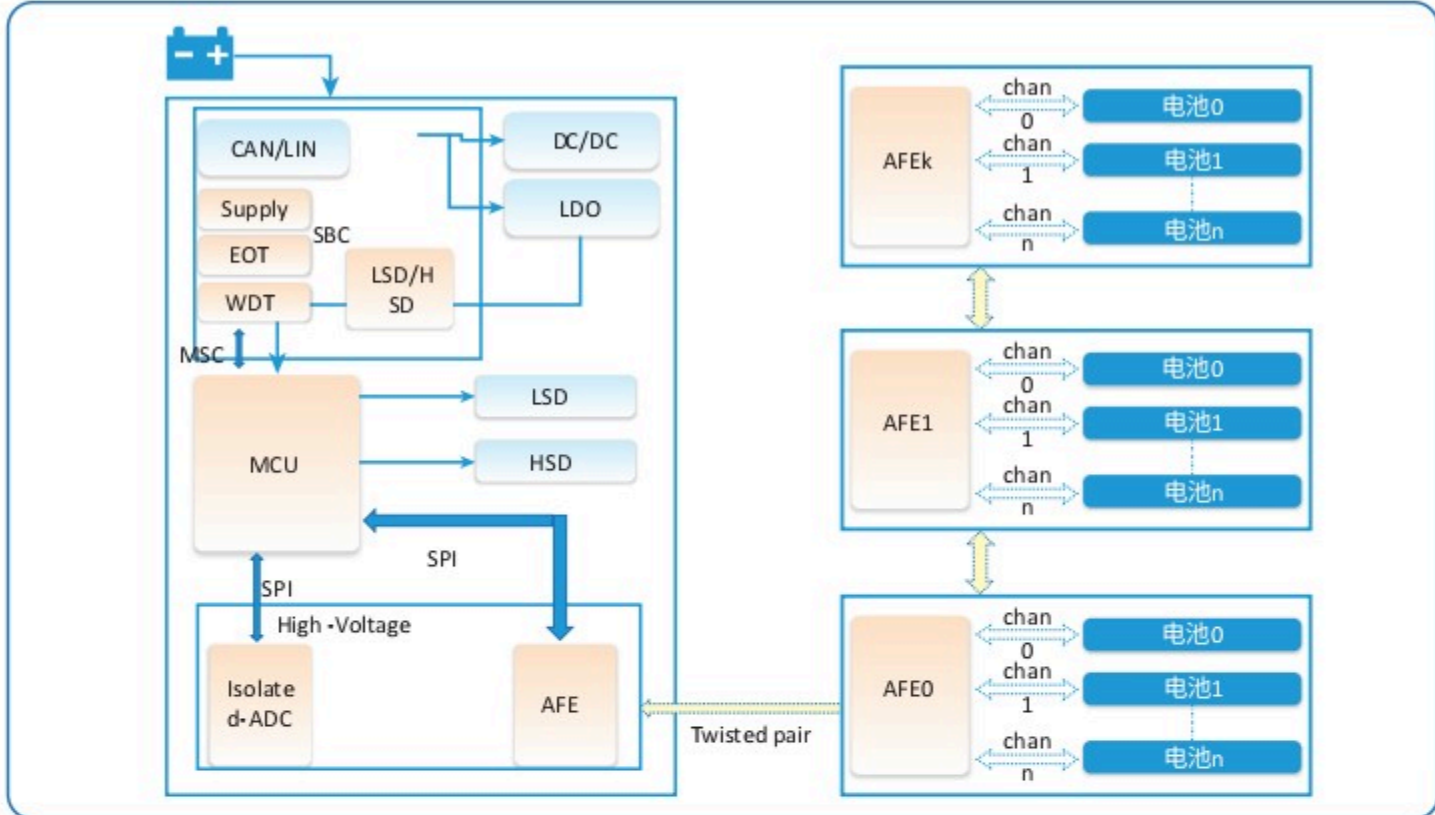


Automobile Air Conditioning Control Panel (汽车空调控制板)



| Category       | Part No.  | Features                         | Package               |
|----------------|-----------|----------------------------------|-----------------------|
| LDO            | BL8078Q   | 40V 50mA 2.5μA Voltage Regulator | SOP8                  |
| Three Terminal | BL78L05G  | 36V 100mA Voltage Regulator      | SOT89-3               |
| EEPROM         | BL24CXXXA | 2K~2048K EEPROM                  | SOP8 TSSOP8 DFN2x2-8L |
| Motor Driver   | SA8548    | 30V 1.2A Stepper Motor Driver    | SOP10                 |
| PWM Controller | ME3843    | Current-Mode PWM Controller      | SOP8                  |
| MOSFET         | BLM30N06L | 60V 30mohm N MOSFET              | TO252                 |
| IGBT           | BLG40T120 | 1200V 40A IGBT                   | TO247                 |

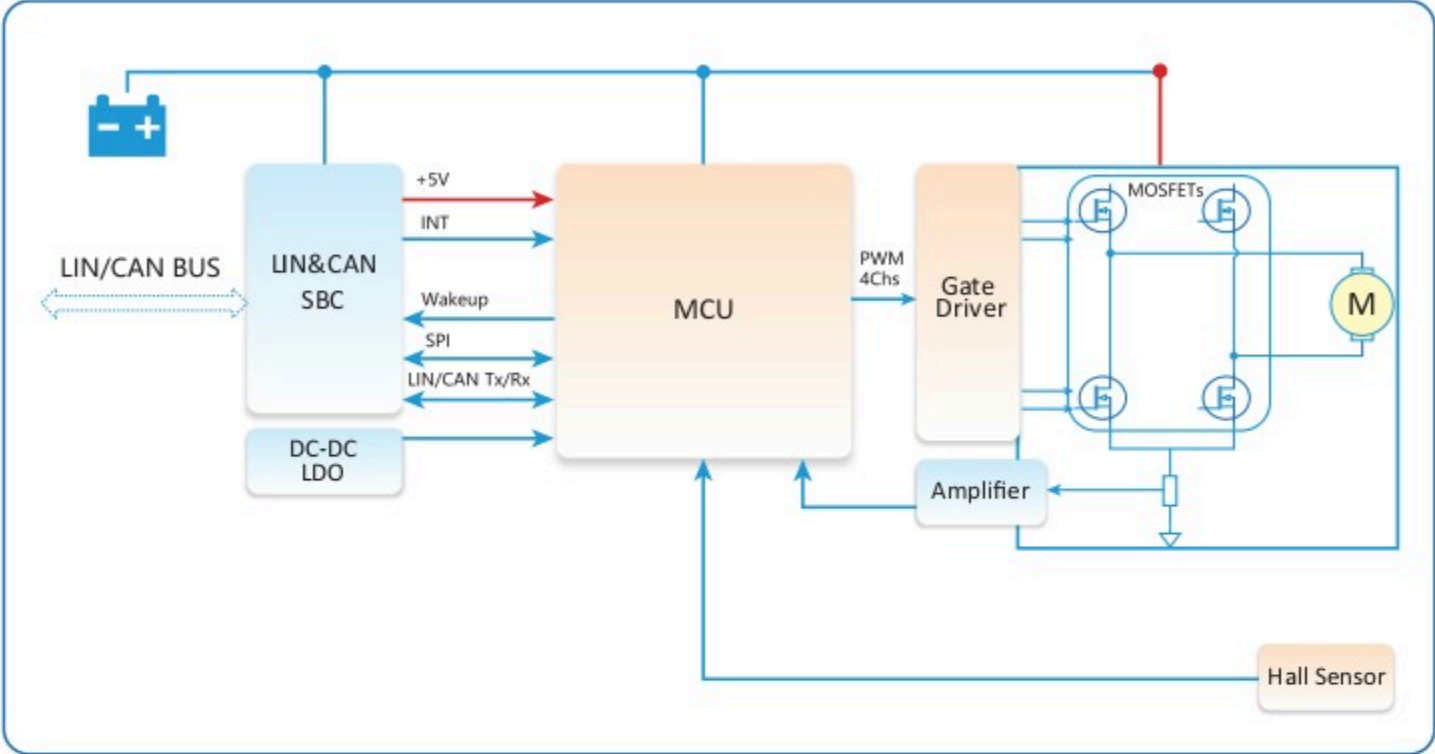
Automobile BMS (汽车BMS)



| Category                | Part No.  | Features                                                                                                             | Package                                     |
|-------------------------|-----------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| LDO                     | BL8078Q   | 40V/150mA Low Consumption Voltage Regulator                                                                          | SOP8                                        |
|                         | MEQ6310   | 6V 150mA Low Drop and Low Noise Voltage Regulators                                                                   | SOT23-5                                     |
|                         | BL78L05G  | 3-TERMINAL 36V/100mA Voltage Regulator                                                                               | SOT89-3                                     |
|                         | ME6230    | 6.5V/400mA, Enabled, Low Power, High Accuracy, High PSRR LDO                                                         | SOT23-3 SOT89-3 FBP1x1-4L DFN1x1-4L SOT23-5 |
|                         | ME6233    | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3 SOT23-5                     |
|                         | ME6234    | 40V/100mA Low Power, High PSRR LDO                                                                                   | SOT89-3                                     |
|                         | ME6261    | 60V/100mA Low Power, High PSRR LDO                                                                                   | SOT23-3 SOT89-3                             |
|                         | MEB78M05  | 36V/500mA, Bipolar High Speed, LDO, Accu.:±1%                                                                        | TO252-2                                     |
|                         | BLL2741Q  | 35V, 4A CV and Dual CC Step-Down DC/DC Converter                                                                     | ESOP8                                       |
|                         | BL9352A   | 45V, 0.6A Step-Down DC/DC Converter                                                                                  | SOT23-6                                     |
| DC-DC                   | BL9362    | 60V, 0.6A, Step-Down DC/DC Converter                                                                                 | SOT23-6                                     |
|                         | ME2177    | High Efficiency, 7-A Synchronous Boost Converter                                                                     | QFN2.5x2.0-11L QFN2.0x2.0-11L               |
|                         | ME2187    | High Efficiency, 10-A Synchronous Boost Converter                                                                    | ESOP16 DFN18 DFN20                          |
| MOSFET                  | BLQ3N100E | 3A/1000V UHV Planar MOS                                                                                              | TO220 TO252                                 |
|                         | BLQ3N120  | 3A/1200V UHV Planar MOS                                                                                              | TO220 TO252                                 |
| CAN (2023~2024)         |           | ±58V Withstand Voltage, CAN FD Transceiver, Support 3~5.5V MCU, With System Power Control (INH) And Wake-up Function |                                             |
| Gate Driver (2023~2024) |           | High-Side and Low-Side Driver                                                                                        |                                             |

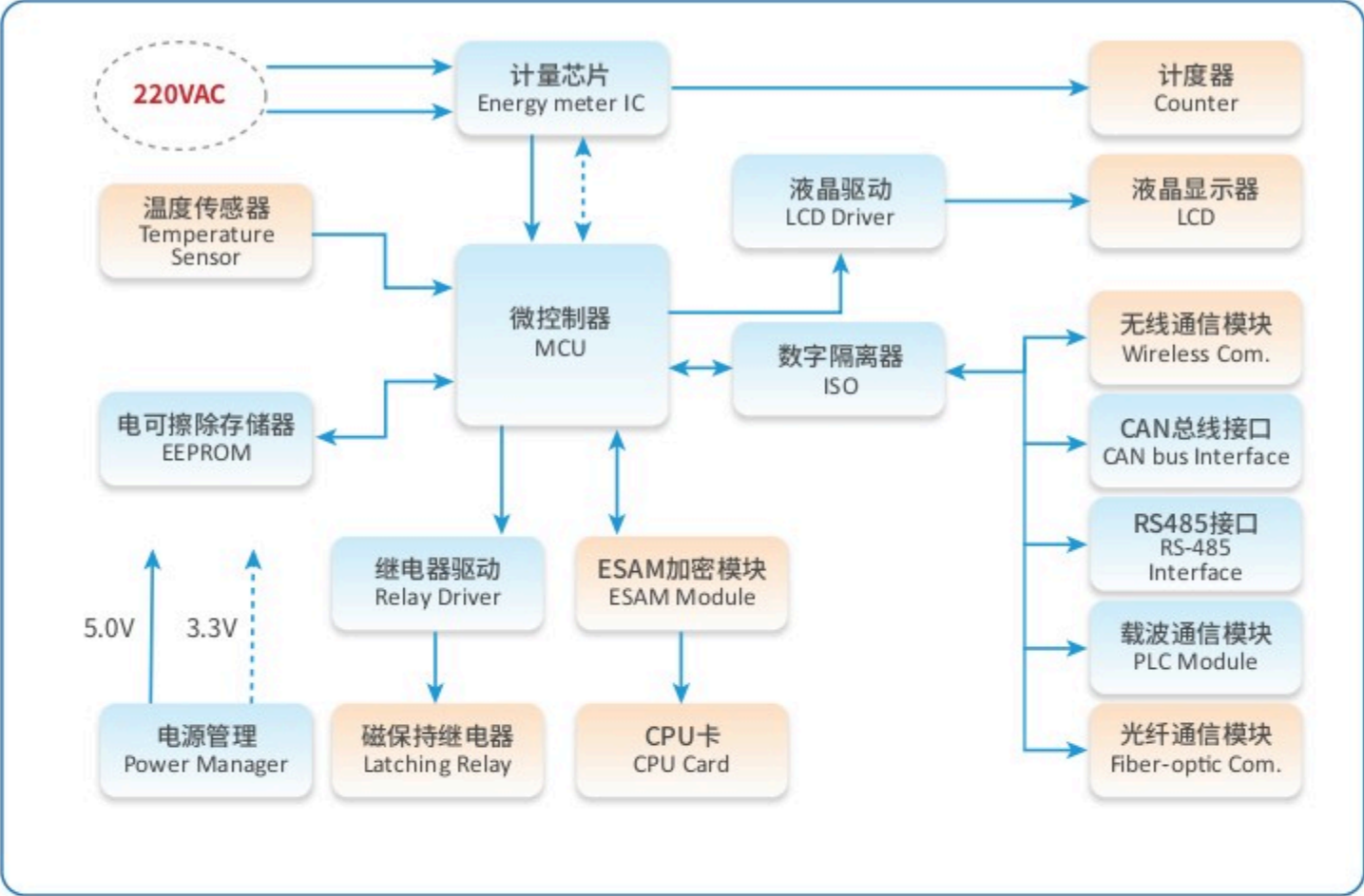


Automobile Window Control (汽车车窗控制)



| Category                   | Part No.        | Features                                                                                                             | Package |
|----------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|---------|
| DC-DC                      | BLL2741Q        | 35V, 4A, CV and Dual CC Step-Down DC/DC Converter                                                                    | ESOP8   |
|                            | BL9362          | 60V, 0.6A, Step-Down DC/DC Converter                                                                                 | SOT23-6 |
| LDO                        | BL8078Q         | 40V/150mA Low Consumption Voltage Regulator                                                                          | SOP8    |
|                            | MEQ6310         | 6V 150mA Low Drop and Low Noise Voltage Regulators                                                                   | SOT23-5 |
| MOSFET                     | BLQM07N06       | 60V 95A Trench NMOS                                                                                                  | TO252-2 |
|                            | BLQM08N06       | 60V 80A Trench NMOS                                                                                                  | TO252-2 |
| Op-Amp                     | MEQ2902/MEQ2904 | 36V 2/4-Channel Operational Amplifier                                                                                | SOP8    |
| CAN<br>(2023~2024)         |                 | ±58V Withstand Voltage, CAN FD Transceiver, Support 3~5.5V MCU, With System Power Control (INH) And Wake-up Function |         |
| Gate Driver<br>(2023~2024) |                 | High-Side and Low-Side Driver                                                                                        |         |

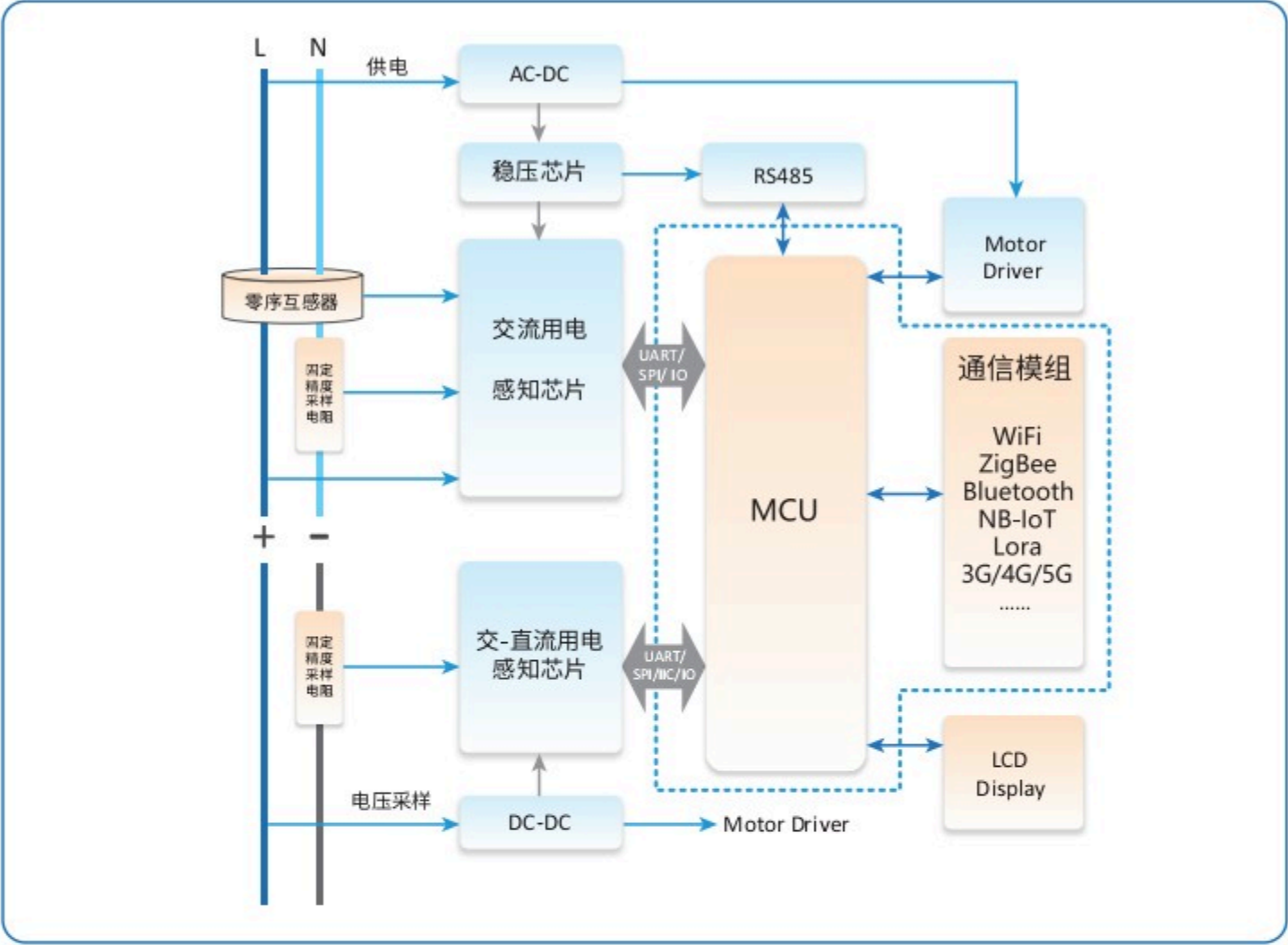
Energy Metering (智能电表)



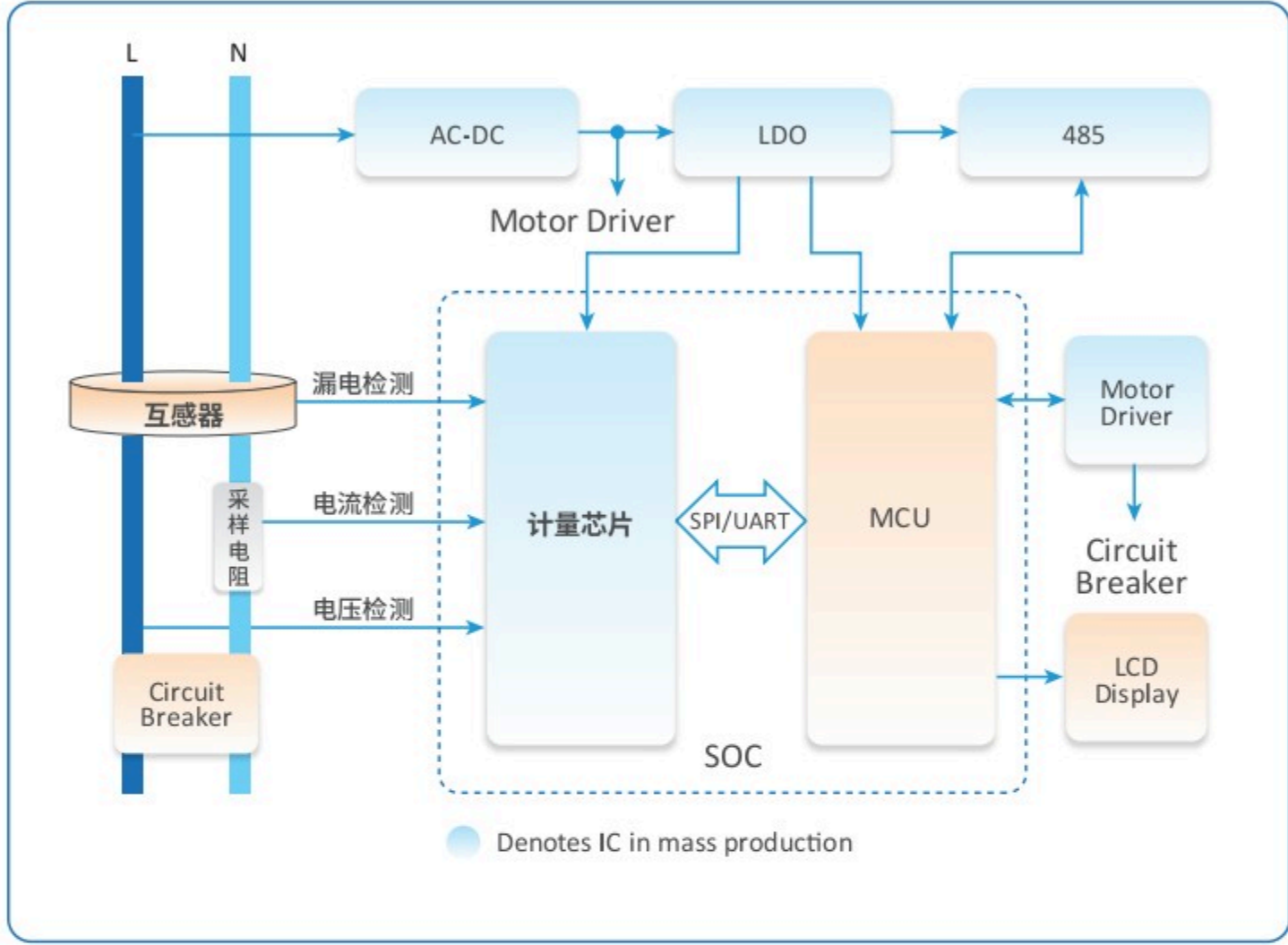
| 电表方案类型推荐 | 计量产品    | 主控     | 液晶驱动     | 数字隔离器  | AC-DC   | 通讯接口              | LDO                          | DC-DC  | Relay Driver | EERPOM               |
|----------|---------|--------|----------|--------|---------|-------------------|------------------------------|--------|--------------|----------------------|
| 单相智能电表方案 | RN8209C | RN8613 | BL55072A | BL714X | -       | BL3085<br>BL1571  | BL78L05D<br>BL8062<br>BL9153 | BL9342 | BL8023       | BL24C512<br>BL24C256 |
| 三相智能电表方案 | RN8302B | RN8318 | BL55080  | BL716X | -       | BL3085<br>BL1571V | BL78L05D<br>BL8062           | BL9362 | BL8023       | BL24C512<br>BL24C1M  |
| 单相导轨表    | BL0930F | -      | BL55073  | -      | BL8812B | BL3085            | BL78L05D<br>BL9153           | -      | -            | BL24CXX              |
| 三相导轨表    | BL6552  | -      | BL55072A | -      | BL8802B | BL3085            | BL78L05DB<br>L9153           | -      | -            | BL24CXX              |
| 一片式解决方案  |         | RN8213 |          | BL712X | BL8812B | BL3085            | BL9153                       | BL9342 | BL8023       | BL24CXX              |



Energy Monitoring (电能监测)



Smart MCB (智能微型断路器)

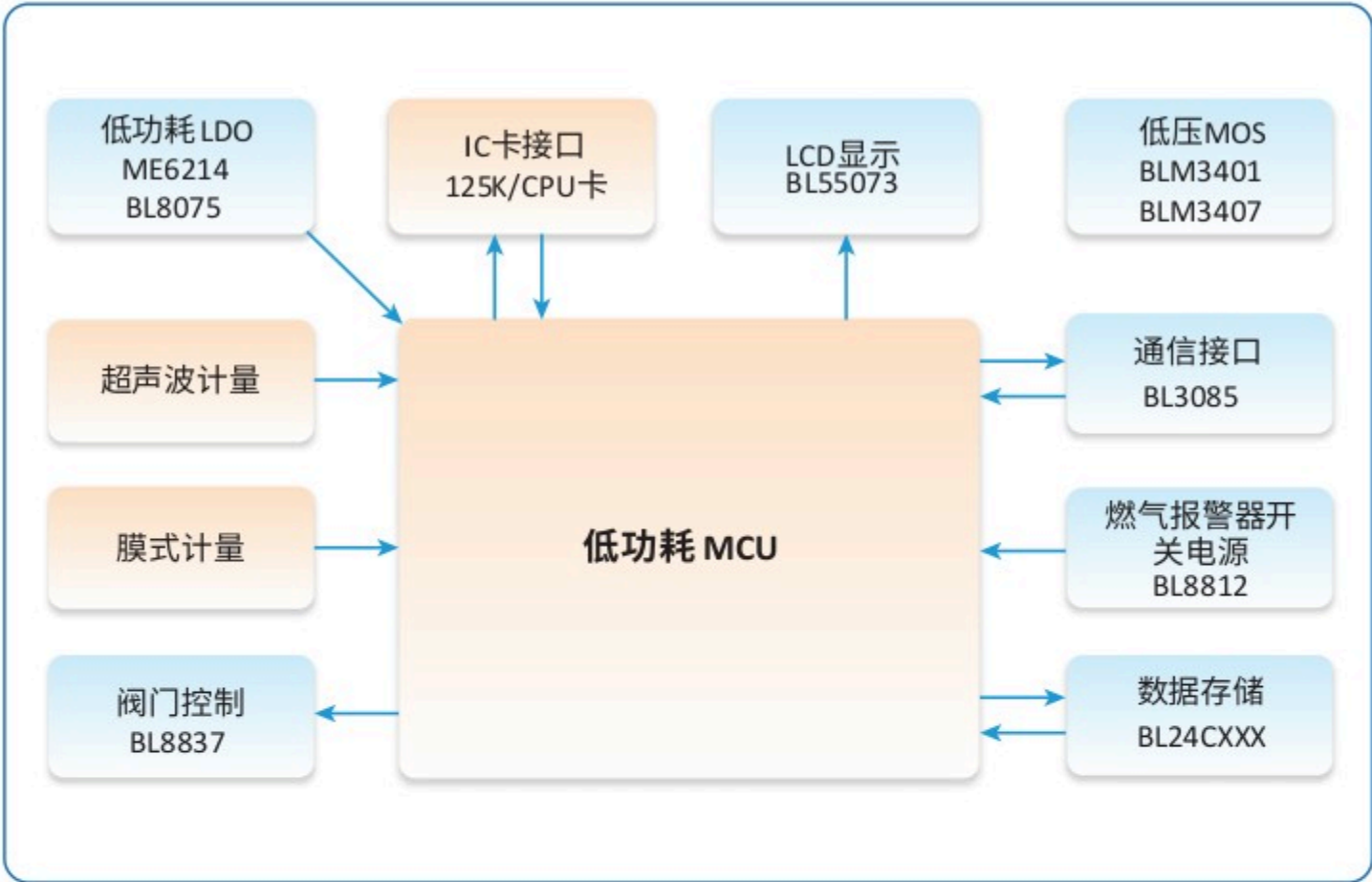


| Category              | Part No. | Features                                                            | Package        |
|-----------------------|----------|---------------------------------------------------------------------|----------------|
| AC Power Sensing Chip | BL0937B  | 1 Channel AC Power Sensing Chip                                     | SOP8           |
|                       | BL0939   | 2 Channel AC Power Sensing Chip                                     | SOP16 SSOP20   |
|                       | BL0940   | 1 Channel AC Power Sensing Chip Up to 105°C Environment Temperature | TSSOP14        |
|                       | BL0942   | 1 Channel AC Power Sensing Chip                                     | SSOP10 TSSOP14 |
|                       | BL0910   | 10 Channel AC Power Sensing Chip                                    | LQFP48         |
| DC Power Sensing Chip | BL0973   | 1 Channel DC Power Sensing Chip                                     | TSSOP28        |
|                       | BL0906   | 6 Channel DC Power Sensing Chip                                     | LQFP32         |
| AC-DC                 | BL8812   | 12W With Internal 650V Power MOSFET                                 | SOP7           |
|                       | BL8851   | Max. 60W With External Power MOSFET                                 | SOT23-6        |
| Motor Driver          | BL5612   | 1.5A 3.0~25V H-Bridge Driver                                        | SOP8           |
|                       | BL5617   | 3.0A 3.0~25V H-Bridge Driver                                        | SOP8           |
| RS485                 | BL3085   | RS485 Interface                                                     | SOP8           |
| LDO                   | BL9162   | 5.5V 300mA LDO                                                      | DFN1x1 SOT23-5 |
|                       | BL78L05D | 42V 100mA Voltage Regulators                                        | SOT89-3        |

| Category                | Part No.  | Features                                     | Package         |
|-------------------------|-----------|----------------------------------------------|-----------------|
| Energy Measurement ASIC | BL0939    | Single Phase Multifunction, Calibration Free | SOP16 SSOP20    |
|                         | BL0942    | Single Phase Multifunction, Calibration Free | SSOP10 SOP14    |
|                         | BL6552    | Three Phase Multifunction                    | QFN36           |
| Energy Measurement SOC  | BL66A0242 | Single Phase Multifunction With ARM-M0, RTC  | LQFP64(7×7)     |
| Interface Circuit       | BL3085/N  | 18KV ESD Protected, Fail Safe, 500KHz        | SOP8            |
|                         | BL8802B   | Built-in 1000V Power MOSFET, PSR             | DIP7            |
| AC-DC                   | BL8812    | Built-in 650V Power MOSFET, PSR              | SOP7            |
|                         | BL8851    | External MOSFET, SSR, Max. 60W               | SOT23-6         |
| LDO                     | BL9153    | 40V/500mA LDO                                | SOT89-3         |
|                         | BL9161G   | 5.5V / 300mA, Iq 2.5μA                       | SOT23-3 SOT23-5 |
| Motor Driver            | BL5617    | 25V 3.0A with OTP and OCP                    | SOP8            |
|                         | BL5616    | 25V 1.5A with OTP and OCP                    | SOP8            |

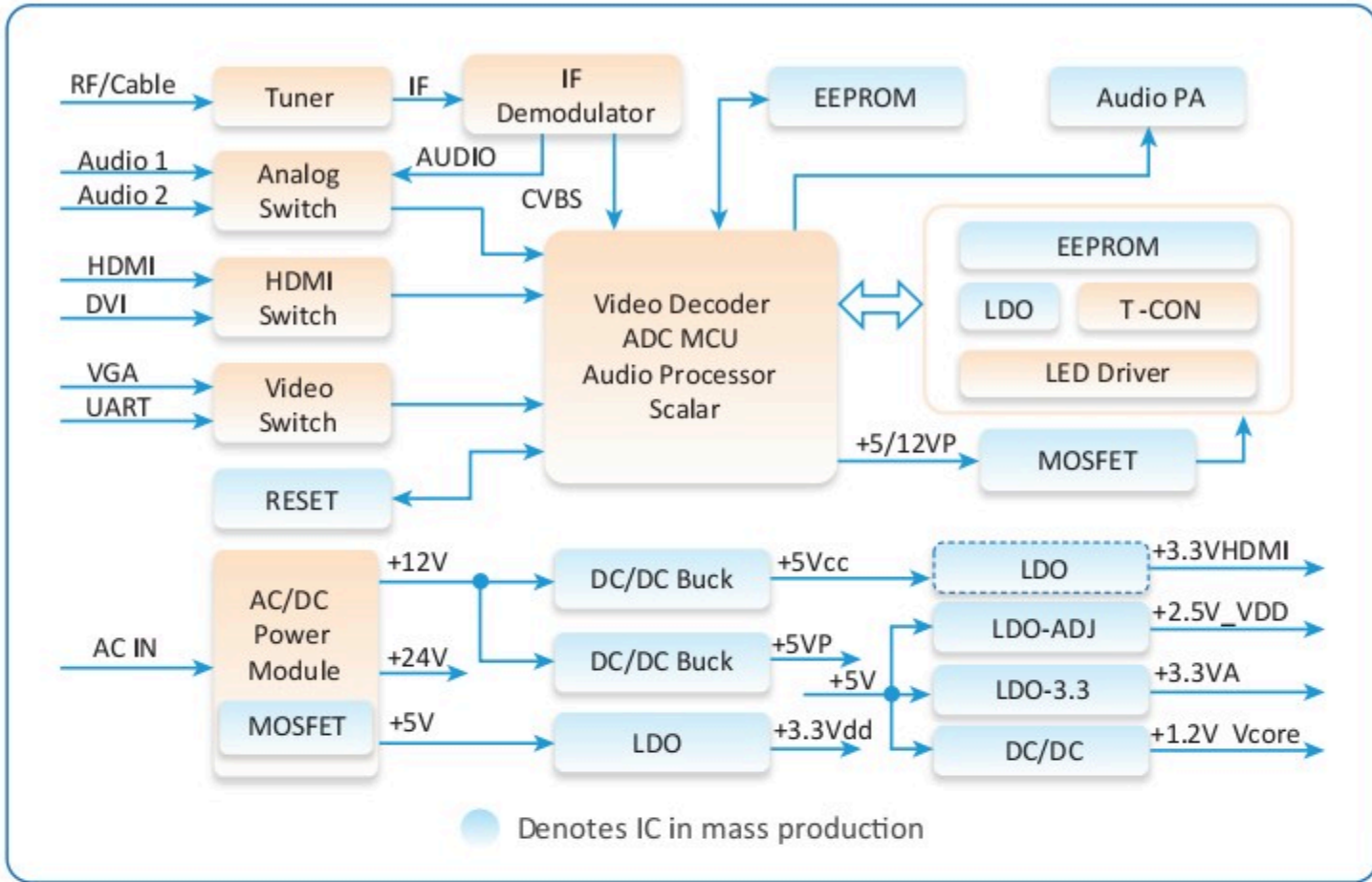


Gas Meter (燃气表)



| Category      | Part No. | Features                            | Package                 |
|---------------|----------|-------------------------------------|-------------------------|
| Low power LDO | BL8075   | 16V 10μA 500mA LDO                  | SOT89-3 SOT23-5         |
|               | ME6214   | 18V 1μA 300mA LDO                   | SOT89-3 SOT23-5 SOT23-3 |
| AC-DC         | BL8812B  | 12W With Internal 650V Power MOSFET | SOP7                    |
| Motor Driver  | BL8837   | 1.5A 3.0~25V H-Bridge Driver        | SOP8                    |
| RS485         | BL3085   | RS485 Interface                     | SOP8                    |
| LCD Driver    | BL55073  | 4omx21seg LCD Driver                | TSSOP28                 |
| MOSFET        | BLM3401  | -30V -4A P Channel Mosfet VGS=12V   | SOT23                   |
|               | BLM3407  | -30V -4A P Channel Mosfet VGS=20V   | SOT23                   |

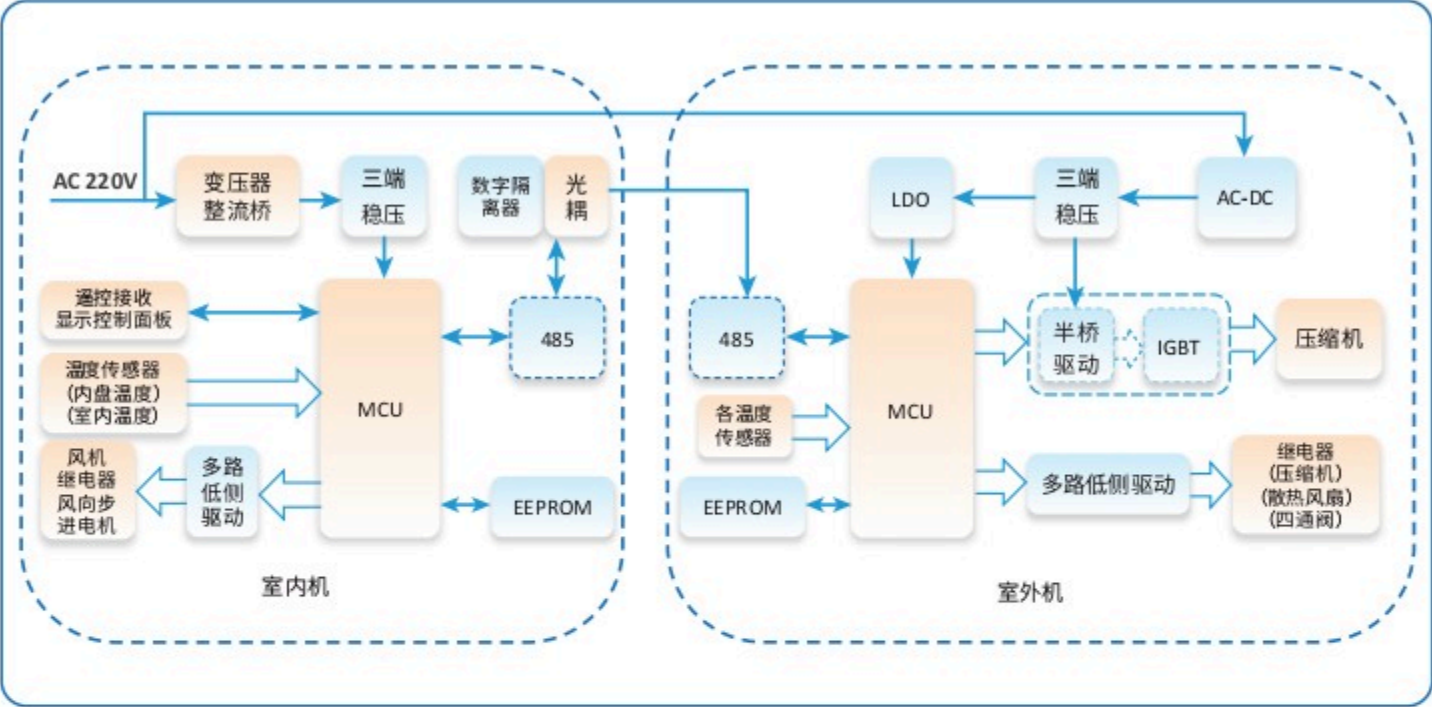
LCD TV (平板电视)



| Category        | Part No.     | Features                     | Package                                |
|-----------------|--------------|------------------------------|----------------------------------------|
| LDO             | BL1117       | 1A Bipolar LDO               | SOT223 TO252                           |
|                 | BL1118       | Dual 1A Bipolar LDO          | ESOP8                                  |
|                 | BL9110/8071G | 1A/1.5A CMOS LDO             | SOT223 TO252                           |
|                 | BL1084/1085  | 5A/3A Bipolar LDO            | TO252 TO263                            |
|                 | BL9161G      | 5.5V / 300mA, Iq 2.5μA       | SOT23-3 SOT23-5                        |
|                 | BL8568       | 500mA CMOS LDO               | SOT23-5                                |
| DC-DC Sync Buck | BL8028       | 1.5A /6V 2MHz DC-DC Sync     | SOT23-5 DFN1x1-6L                      |
|                 | BL8032G      | 2A /18V Synchronous Buck     | SOT23-6                                |
|                 | BL8033       | 3A /18V Sync DC/DC Step-Down | SOT23-6                                |
|                 | BL8034       | 4A /16V Sync DC/DC Step-Down | ESOP8                                  |
| Reset           | BL8518       | Voltage Detector, Reset      | SOT23-3 SOT23-5                        |
| EEPROM          | BL24CXXX     | 2K~2048Kbit EEPROM           | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 WLCSP4 |
| MOSFET          | BLM3407      | 30V/4.1A, 46mΩ P-MOSFET      | SOT23-3                                |
|                 | BLM3401      | 30V/4.2A, 50mΩ P-MOSFET      | SOT23-3                                |
|                 | BLM9435      | 30V/5.1A, 48mΩ P-MOSFET      | SOP8                                   |
|                 | BL15N50      | 500V/15A, 290mΩ N-MOSFET     | TO220 TO220F                           |
|                 | BL20N50      | 500V/20A, 230mΩ N-MOSFET     | TO220 TO220F TO3PF TO3PN               |
|                 | BLS65R380    | 650V/11A, 330mΩ N-MOSFET     | TO220 TO220F TO251 TO252               |
|                 | BLS70R420    | 700V/11A, 350mΩ N-MOSFET     | TO220 TO220F TO251 TO252               |

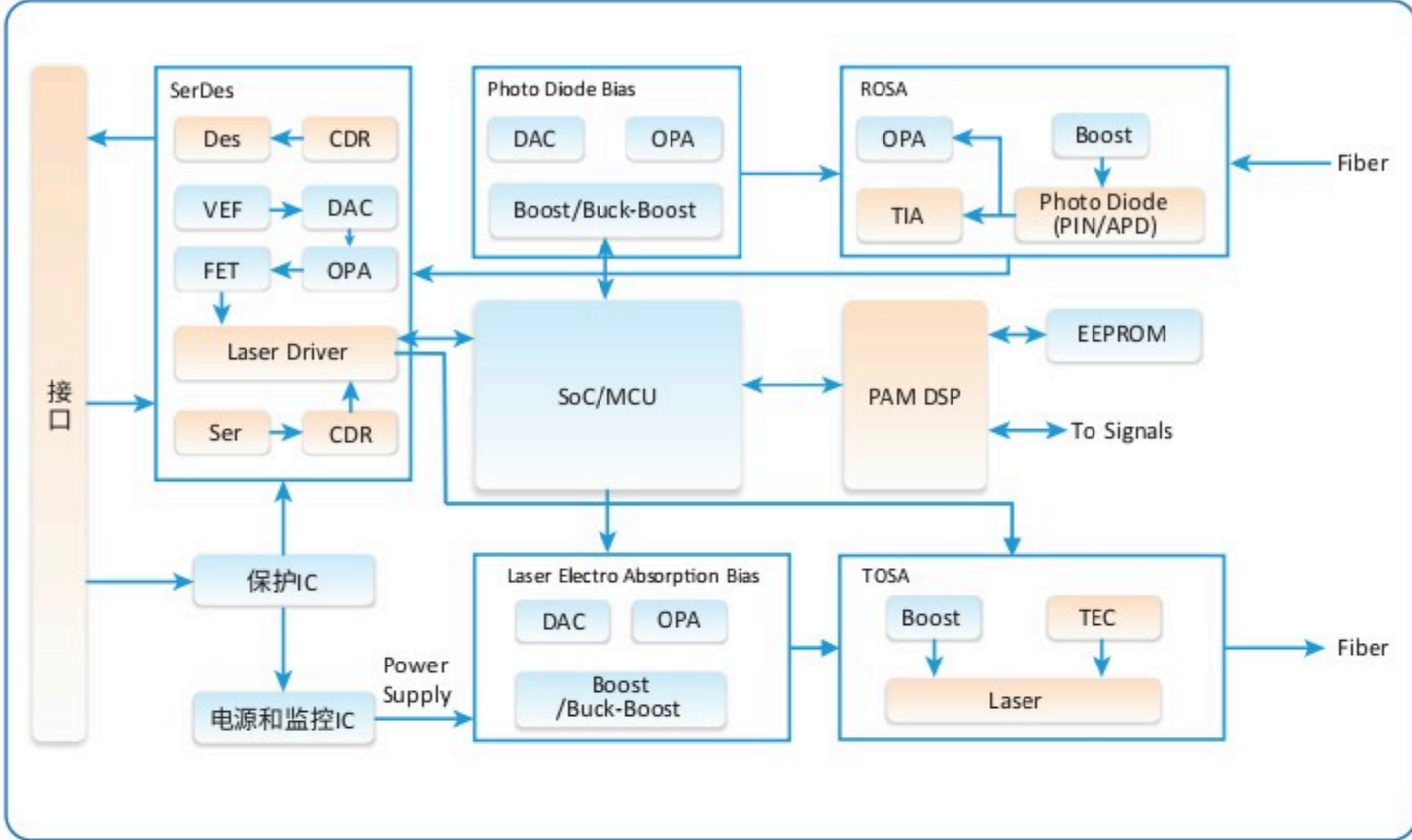


Household Air Conditioner (家用空调)



| Category         | Part No.    | Features                               | Package               |
|------------------|-------------|----------------------------------------|-----------------------|
| LDO              | BL1117      | 1A Low Dropout Voltage Regulator       | SOT223 TO252          |
| Three Terminal   | BL7805      | 35V 1.2A Voltage Regulator             | TO220                 |
| EEPROM           | BL24CXXF    | 2K~2048K EEPROM                        | SOP8 TSSOP8 DFN2x2-8L |
| 485 Transceiver  | BL3085(I47) | 500kbps 15KV ESD protected             | SOP8                  |
| Digital Isolator | BL712X      | 3.75KV Dual Channel Digital Isolator   | SOP8                  |
|                  | BL714X      | 5KV Quad Channel Digital Isolator      | SOIC16W               |
| Shunt Regulator  | BL431       | 36V 100mA shunt regulator              | SOT23-3 SOT89-3 TO92  |
| Low Side Driver  | UNL2003     | 50V 500mA Darlington Transistor Arrays | SOP16                 |
| Gate Driver      | BL8601      | 600V +0.3A/-0.6A Gate Driver           | SOP8                  |
| IGBT             | BLG10T65FUL | 650V 10A IGBT                          | TO252                 |
|                  | BLG15T65FUA | 650V 15A IGBT                          | TO220 TO220F TO263    |
|                  | BLG40T65FUL | 650V 40A IGBT                          | TO247 TO3P            |

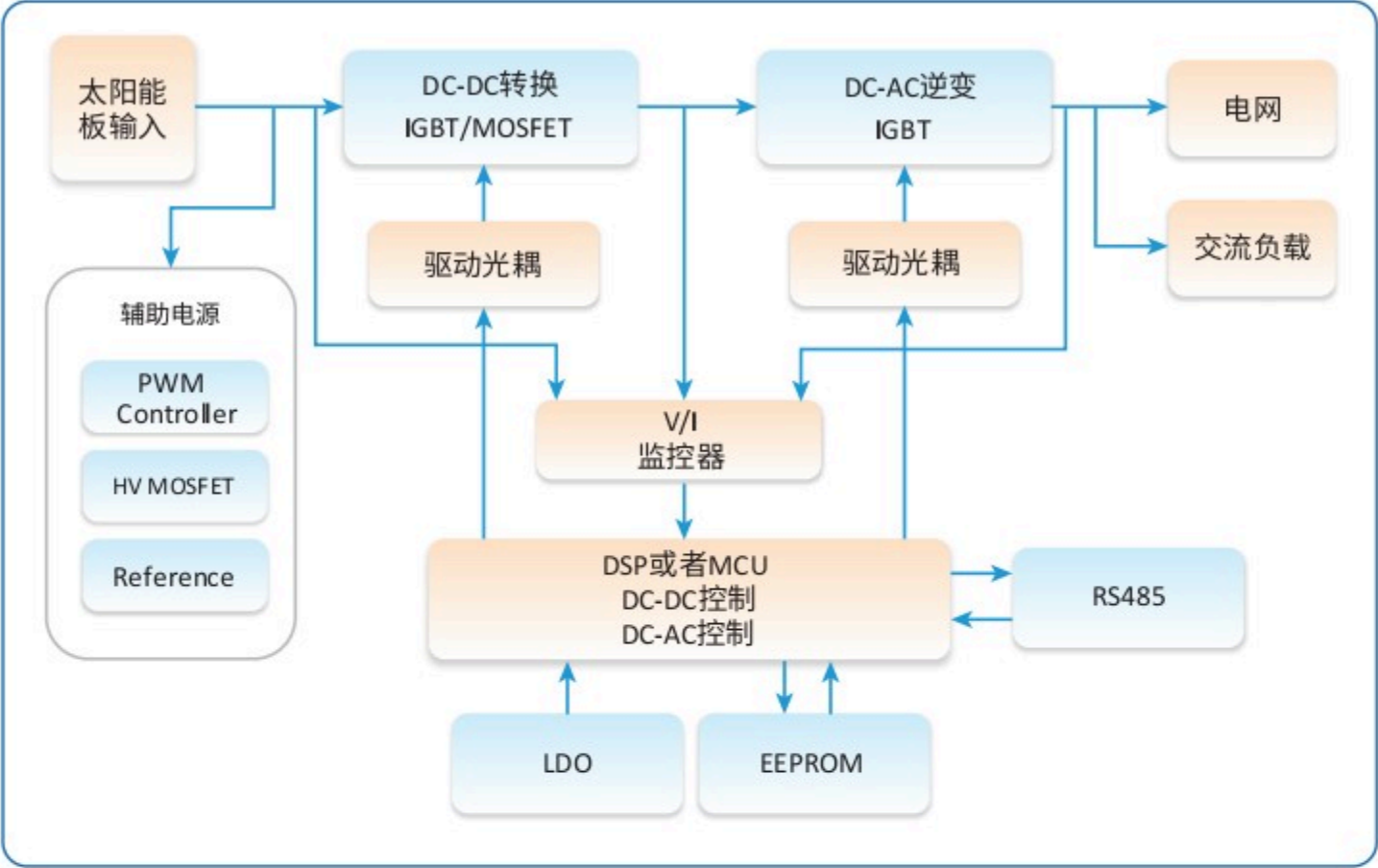
Optical Communication (光通讯)



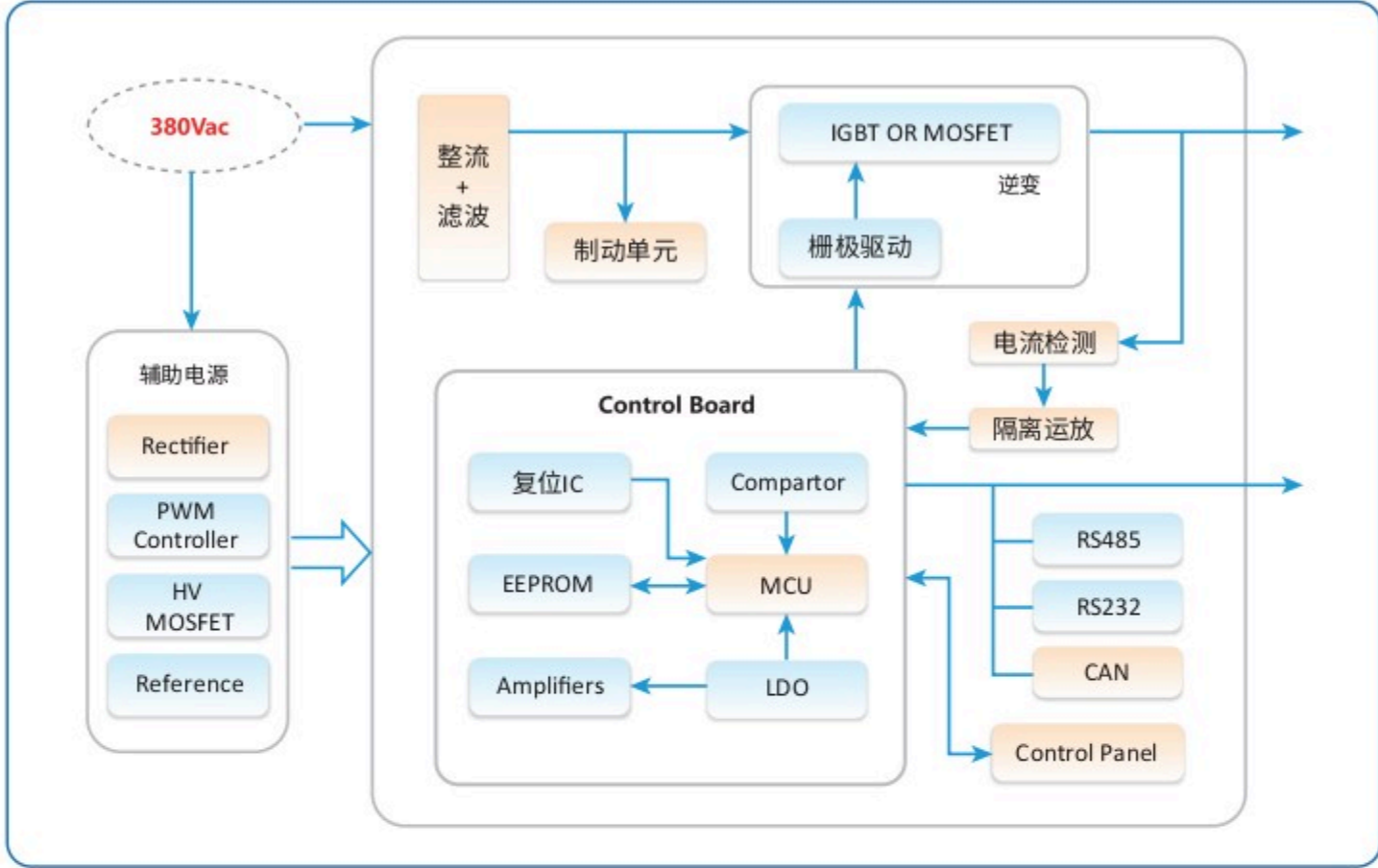
| Category                | Part No.   | Features                                                                        | Package               |
|-------------------------|------------|---------------------------------------------------------------------------------|-----------------------|
| Optical Transceiver SOC | BL32F32X2  | 32bit Core, 32K Flash, 2K SRAM, ADC, DAC x2/4CH, TPS, I2C, UART, PLUx4          | QFN20 QFN24 QFN32     |
|                         | BL32F128X2 | 32bit Core, 64/128K Flash, 8K/16K SRAM, ADC, DAC x2/4CH, TPS, I2C, UART, PLUx16 | QFN32 QFN40           |
| EEPROM                  | BL24CXXA   | Two-wire Serial, 2K~2048K EEPROM                                                | SOP8 TSSOP8 DFN2x2-8L |
|                         | BL25CMXA   | Serial Peripheral Interface, 1M/2M EEPROM                                       | DIP8 SOP8 WLCSP8      |
| Analog Switch           | BL1551B    | 2.7Ω 350MHz Low-Voltage Analog Switch                                           | SC70-6                |
|                         | BL1561     | 4Ω, 400MHz, SPST Analog Switch                                                  | SC70-5                |
| Operational Amplifier   | BL321LFR   | 1MHZ CMOS Rail-to-Rail IO Operational Amplifier                                 | SOT23-5               |
|                         | BL3792     | 11MHZ CMOS Rail-to-Rail IO Operational Amplifier                                | SOP8                  |
| DC/DC                   | BL8042D    | Asynchronous Boost PWM/PFM                                                      | SOT23-5               |
| LDO                     | BL8079AG   | High PSRR, Fast Response, Low Dropout                                           | SOT23-5               |
| Load Switch             | BL2556     | 70mohm Adjustable USB Load Current Switch                                       | SOT23-5               |



Photovoltaic (光伏)



Frequency Converter (变频器)

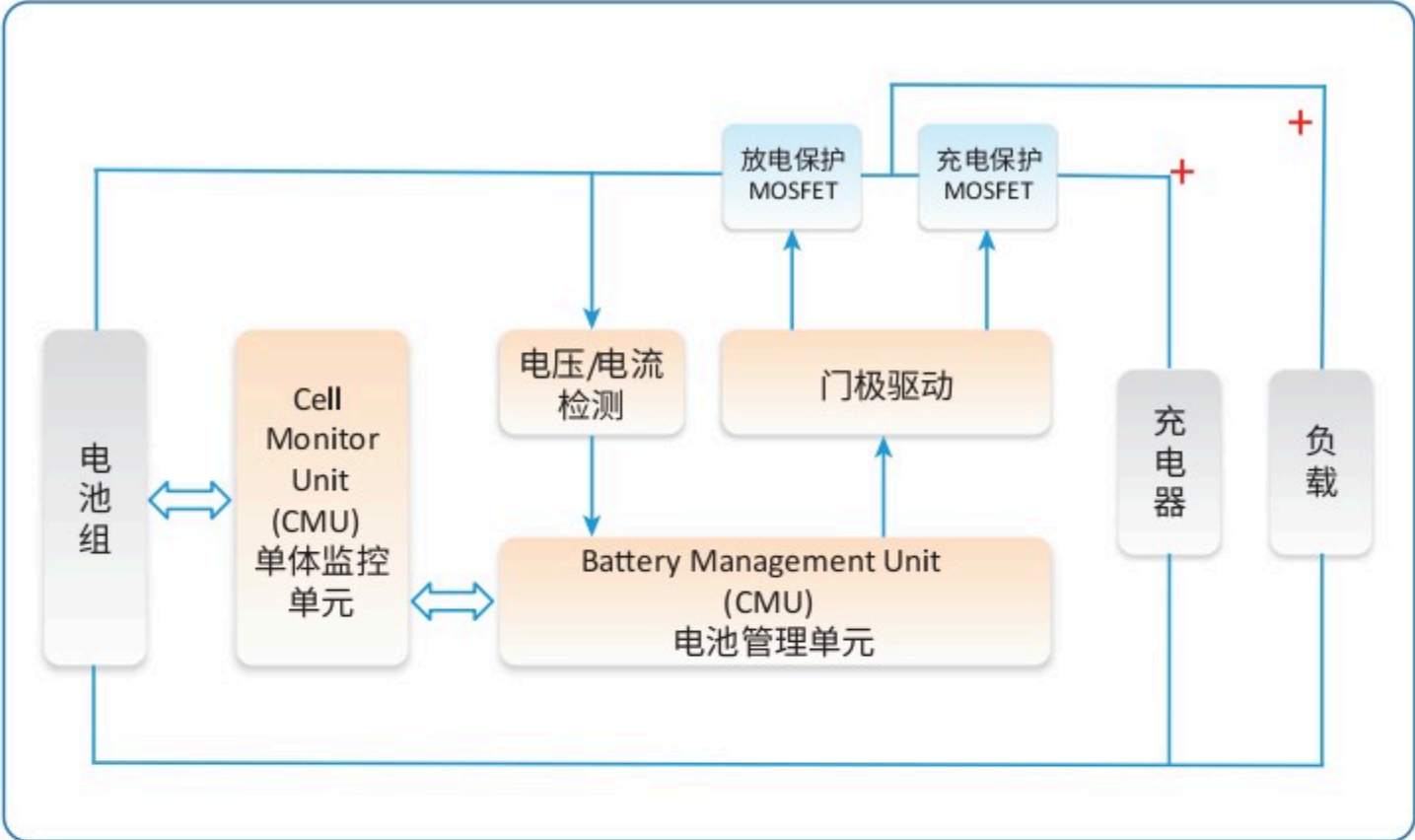


| Category  | Part No.    | Features                                                    | Package                              |
|-----------|-------------|-------------------------------------------------------------|--------------------------------------|
| LDO       | BL1117      | 12V/1A Bipolar Linear Regulator                             | SOT223 TO252                         |
| EEPROM    | BL24CXXA    | 2K~2048K EEPROM                                             | SOP8 TSSOP8 DFN2x2-8L TSOT23-5       |
| Reference | BL431       | Adjustable Precision Shunt Regulators                       | TO92 SOT23 SOT89-3                   |
| HV MOSFET | BL3N150     | 1500V/3A 5.8Ω typ HV MOSFET                                 | TO220 TO220F TO3PN TO3PF TO247 TO263 |
|           | BL4N150     | 1500V/4A 4.0Ω typ HV MOSFET                                 | TO220 TO220F TO3PN TO3PF TO247 TO263 |
| MOSFET    | BLP02N08    | 85V/180A 1.6mΩ typ LV MOSFET                                | TO263 TO263-7 TO247 TOLL8            |
|           | BLP03N08    | 85V/180A 2.3mΩ typ LV MOSFET                                | TO263 TO263-7 TO247 TOLL8            |
|           | BLP023N10   | 100V/180A 1.8mΩ typ LV MOSFET                               | TO263 TO263-7 TO247 TOLL8            |
|           | BLP03N10    | 100V/180A 2.7mΩ typ LV MOSFET                               | TO263 TO263-7 TO247 TOLL8            |
| IGBT      | BLG40T120   | 1200V 40A Discrete IGBT                                     | TO247                                |
|           | BLG40T65    | 650V 40A Discrete IGBT                                      | TO247 TO3PN                          |
|           | BLG50T65    | 650V 50A Discrete IGBT                                      | TO247 TO3PN                          |
|           | BLG60T65    | 650V 60A Discrete IGBT                                      | TO247 TO3PN                          |
| RS485     | BL3085(I47) | ±15kV ESD-Protected, 500kbps, Fail-Safe, RS-485 Transceiver | SOP8                                 |
|           | BL1590      | ±15kV ESD-Protected, 16Mbps, Fail-Safe, RS-485 Transceiver  | SOP8                                 |

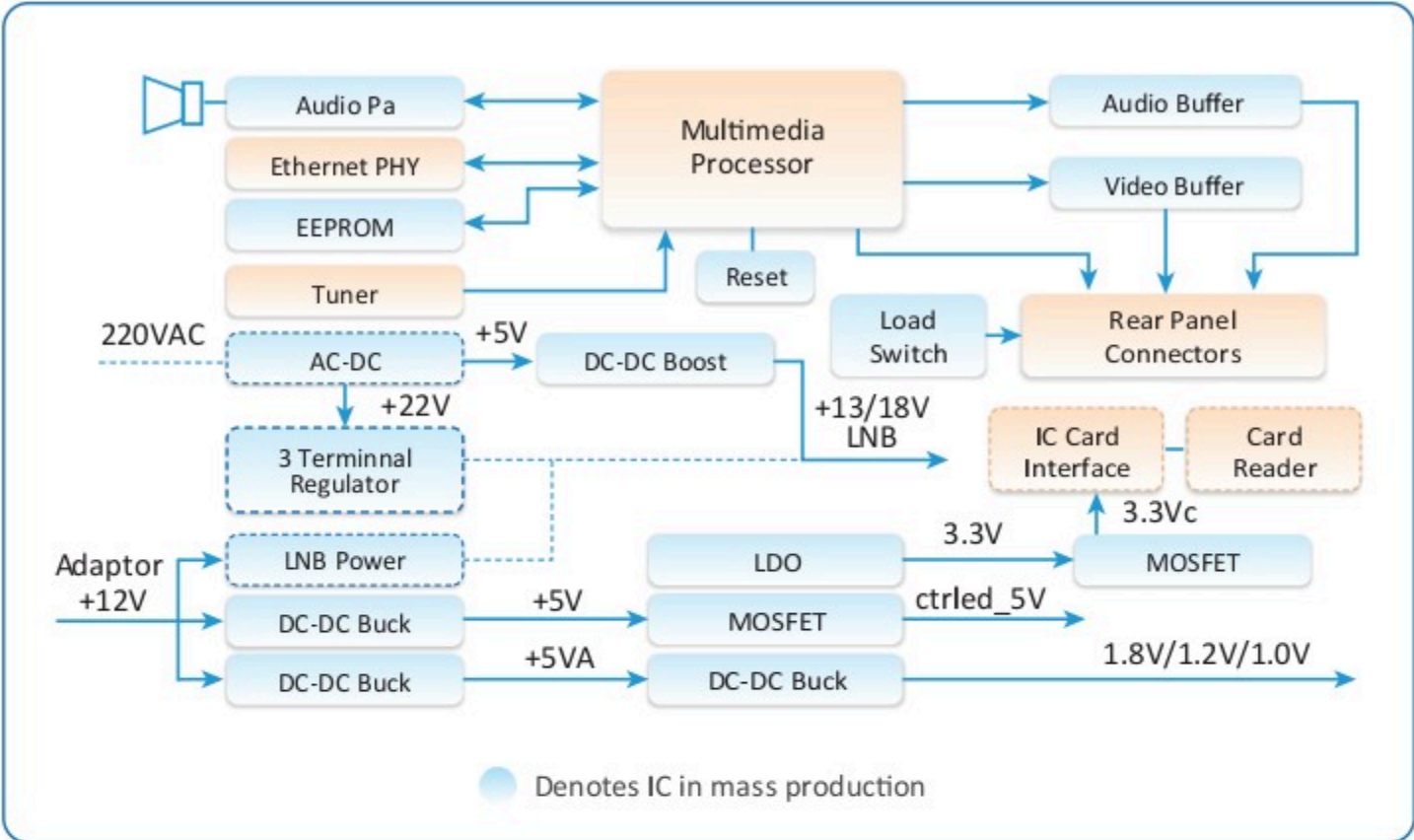
| Category       | Part No.             | Features                                                    | Package                              |
|----------------|----------------------|-------------------------------------------------------------|--------------------------------------|
| LDO            | BL1117               | 12V/1A Bipolar Linear Regulator                             | SOT223 TO252                         |
| RESET IC       | BL8518               | Voltage Detector, Reset                                     | SOT23-3 SOT23-5                      |
| EEPROM         | BL24CXXA             | 2K~2048K EEPROM                                             | SOP8 TSSOP8 DFN2x2-8L TSOT23-5       |
| Op Amplifiers  | BL358                | Low Power Dual Op Amp                                       | SOP8                                 |
| PWM Controller | ME3843               | Current-Mode PWM Controller                                 | SOP8                                 |
| Comparator     | ME393<br>ME339       | Dual/Quad Differential Comparators                          | SOP8 SOP14                           |
| Reference      | BL431                | Adjustable Precision Shunt Regulators                       | TO92 SOT23 SOT89-3                   |
| MOSFET         | BL3N150              | 1500V/3A 5.8Ω typ HV MOSFET                                 | TO220 TO220F TO3PN TO3PF TO247 TO263 |
|                | BL4N150              | 1500V/4A 4.0Ω typ HV MOSFET                                 | TO220 TO220F TO3PN TO3PF TO247 TO263 |
| IGBT           | BLG40T120            | 1200V 40A Discrete IGBT                                     | TO247                                |
|                | BLG40T65<br>BLG15T65 | 650V 40A /15A Discrete IGBT                                 | TO247 TO3PN                          |
| RS232          | BL13232              | 3V to 5.5V, 250kbps, RS-232 Transceivers                    | SOP16 TSSOP16                        |
| RS485          | BL3085(I47)          | ±15kV ESD-Protected, 500kbps, Fail-Safe, RS-485 Transceiver | SOP8                                 |
|                | BL1590               | ±15kV ESD-Protected, 16Mbps, Fail-Safe, RS-485 Transceiver  | SOP8                                 |



### Li-ion Battery Protection (锂电保护)



### Belling STB Solution (机顶盒)

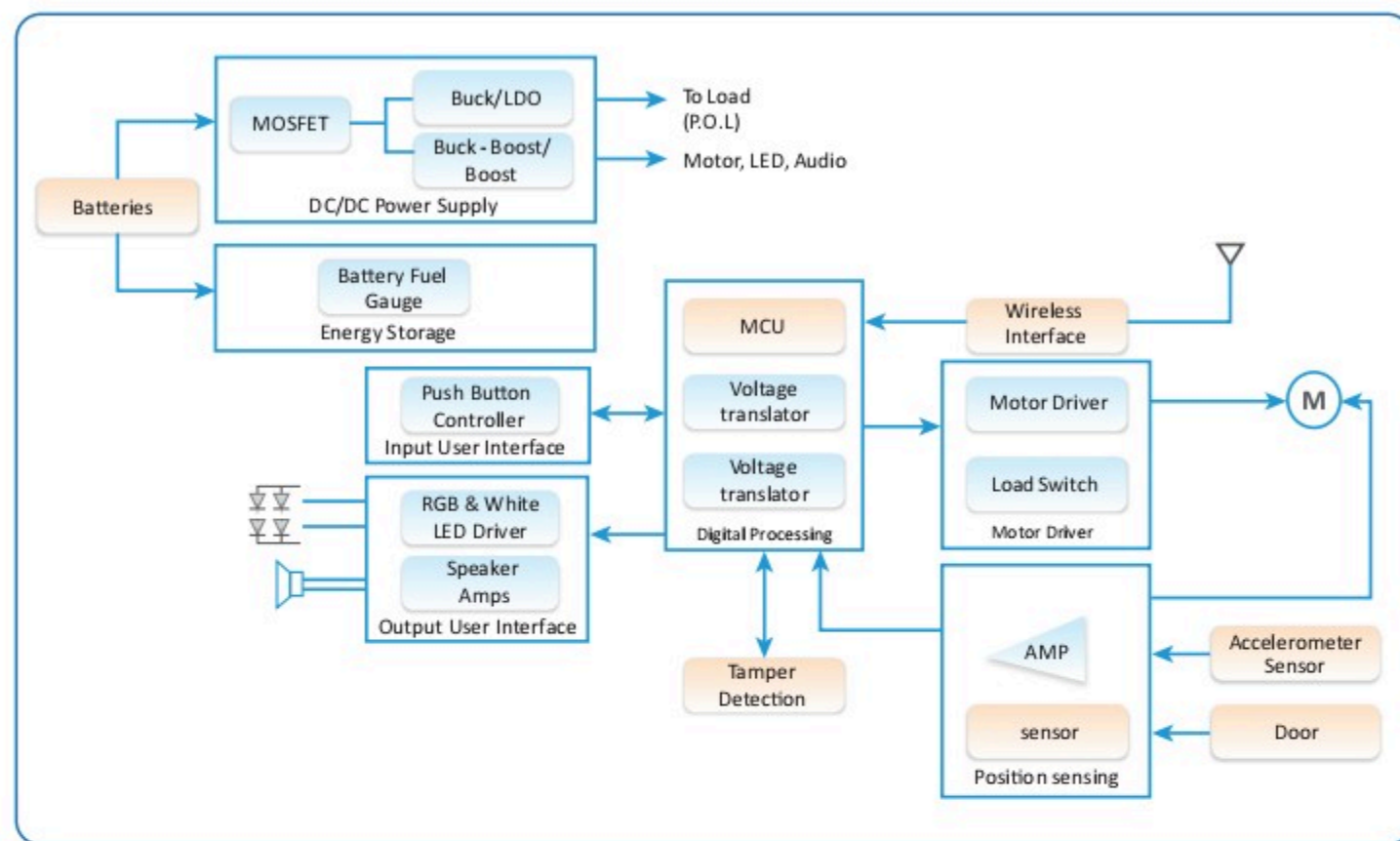


| Category                  | Part No.   | Features                                  | Package                 |
|---------------------------|------------|-------------------------------------------|-------------------------|
| Li-ion Battery Protection | ME4213     | 3/4/5 Series Li-ion Battery Protection IC | SOT23-6                 |
|                           | ME4212     | 2 Series Li-ion Battery Protection IC     | SOT23-6                 |
| SGT MOSFET                | BLP02N08   | 85V/1.6mΩ typ SGT MOSFET                  | TO263 TO220 TO247 TOLL8 |
|                           | BLP03N08   | 85V/2.3mΩ typ SGT MOSFET                  | TO263 TO220 TO247 TOLL8 |
|                           | BLP04N08   | 85V/3mΩ typ SGT MOSFET                    | TO263 TO220             |
|                           | BLP05N08G  | 85V/4.4mΩ typ SGT MOSFET                  | TO263 TO220             |
|                           | BLP065N08G | 85V/5.4mΩ typ SGT MOSFET                  | TO263 TO220             |
|                           | BLP055N09G | 90V/5.0mΩ typ SGT MOSFET                  | TO263 TO220             |
|                           | BLP023N10  | 100V/1.8mΩ Typ SGT MOSFET                 | TO263 TO220 TO247 TOLL8 |
|                           | BLP045N10  | 100V/3.6mΩ Typ SGT MOSFET                 | TO263 TO220             |
|                           | BLP04N10   | 100V/3.3mΩ Typ SGT MOSFET                 | TO263 TO220             |
|                           |            |                                           |                         |

| Category                 | Part No. | Features                                          | Package                                |
|--------------------------|----------|---------------------------------------------------|----------------------------------------|
| Linear Voltage Regulator | BL1117   | 1A Bipolar LDO                                    | SOT223 TO252                           |
|                          | BL9110   | 1A CMOS LDO                                       | SOT223 TO252                           |
| 3 Terminal Regulator     | BL317B   | 1.5A Bipolar Adjustable                           | TO220 SOT223 TO252                     |
| DC-DC Buck Converter     | BL8028   | 1.5A /6V 1.5MHz DC-DC Sync Buck PWM/PFM           | SOT23-5                                |
|                          | BL8032G  | 2A /18V Synchronous Buck                          | SOT23-6                                |
|                          | BL8039   | 2A/5.5V DC/DC Synchronous Buck                    | SOP8                                   |
|                          | BL8033   | 3A /18V Synchronous Buck                          | SOT23-6                                |
| Reset                    | BL8034   | 4A /16V Synchronous Buck                          | ESOP8                                  |
|                          | BL8518   | Voltage Detector, Reset                           | SOT23-3 SOT23-5                        |
| EEPROM                   | BL24CXXX | 2K~2048Kbit EEPROM                                | DIP8 SOP8 TSSOP8 UDFN8 TSOT23-5 WLCSP4 |
| Audio                    | BL6281G  | 1.7W Class AB                                     | MSOP8 SOP8                             |
|                          | BL6306   | 2.6W Class D                                      | MSOP8                                  |
| Analog Switch            | BL1551B  | 2.7Ω 300MHz SPDT                                  | SC70-6                                 |
| Video Buffer             | BL1511/B | 1 channel 5 <sup>th</sup> Order SDTV Video Filter | SC70-5                                 |
| MOSFET                   | BLM2301  | 20V/3.0A, 46mΩ P-MOSFET                           | SOT23-3                                |
|                          | BLM3401  | 30V/4.2A, 50mΩ P-MOSFET                           | SOT23-3                                |
| AC-DC                    | BL8891B  | 15W Current Mode PWM Power Switch                 | DIP7                                   |



## Wireless Smart Lock (无线智能锁)



| Category    | Part No.                 | Features                                 | Package                                     |
|-------------|--------------------------|------------------------------------------|---------------------------------------------|
| Buck        | BLE3107/ME3107           | 6V /0.7μA /200mA Synchronous Buck        | SOT23-5                                     |
|             | BL8032G/BL8032S/BLL2452S | 16V/2A Synchronous Buck                  | SOT23-6                                     |
|             | BL8033                   | 16V/3A Synchronous Buck                  | SOT23-6                                     |
| LDO         | BL8072                   | 18V/3μA /2A/high PSRR LDO                | SOT223 TO252                                |
|             | BL8062                   | 18V/3μA /250mA/Low IQ LDO                | SOT23-3 SOT89-3                             |
|             | ME6231                   | 18V/1.8μA /500mA/Low IQ LDO              | SOT23-3 SOT89-3<br>DFN1.2x1.6-4L SOT23-5    |
|             | ME6322/BL8079AG          | 6.5V/ADJ/500mA/High PSRR LDO             | SOT23-5                                     |
| Driver      | BL8320/BL5610/SA8837     | 15V 1.8A/1.2A/1.6A H-Bridge Motor Driver | SOP8                                        |
|             | SA8337/SA8321/SA8339     | 13V 4.5A/3A/3.5 H-Bridge Motor Driver    | SOP DIP8                                    |
| EEPROM      | BL24CXXX                 | 2K~2048Kbit EEPROM                       | SOP8 TSSOP8 PDIP8 UDFN8<br>SOT23-5 TSOT23-5 |
| Load Switch | ME1501/BL2556/ME1502     | 5.5V/2.1A/70mohm Load Switch             | SOT23-5                                     |
| AMP         | BL3601/BL3602            | nA Low IQ Opamp                          | SOT23-5 SOP8                                |
|             | BL321L/BL358L            | 5.5V/1MHz/RRO Low IQ High Voltage Opamp  | SOT23-5 SOP8                                |
| Speak Amp.  | BL6306                   | 5.5V/2.6W/Class D Audio Power Amplifier  | SOP8 MSOP8                                  |
| RESET       | ME2803/BL8506            | RESET IC                                 | SOT23-3                                     |
| N-MOSFET    | BLM30N06L                | 60V/30mohm MOSFET                        | TO252                                       |
|             | BLM2301                  | -20V/45mohm MOSFET                       | SOT23-3                                     |
| P-MOSFET    | BLM1216Y                 | -12V/18mohm MOSFET                       | SOT23-3                                     |



HDS  
华大半导体  
HUADA SEMICONDUCTOR



上海贝岭  
SHANGHAI BELLING

## 上海贝岭简介 Introduction of Shanghai Belling

- 上海贝岭公司创建于1988年，是国内集成电路行业的第一家中外合资企业。1998年改制上市，是国内集成电路行业的第一家上市公司。2009年，中国电子信息产业集团有限公司（CEC）成为公司第一大股东。2015年，华大半导体成为上海贝岭第一大股东，公司实际控制人仍为CEC。
- 上海贝岭地处上海市漕河泾新兴技术开发区，拥有国家级企业技术中心。截至2022年12月31日，公司累计拥有有效专利数354项，其中发明专利262项；累计拥有有效集成电路布图设计专有权397项，软件著作权75项。公司主业聚焦于模拟集成电路产品领域，公司集成电路产品业务分布在功率链（电源管理、功率器件、电机驱动业务）和信号链（数据转换器、电力专用芯片、物联网前端、非挥发存储器、标准信号产品业务）共2大类、8个细分产品领域，主要目标市场为汽车电子、工控、光伏、储能、能效监测、电力设备、光通讯、家电、短距离交通工具、高端及便携式医疗设备，以及手机摄像头模组等其它消费类应用市场。
- 公司对生产经营和质量保障拥有丰富的实践经验，拥有运营保障核心竞争力。公司在上海、北京、南京、深圳、成都、西安和珠海等地建立了研发和销售队伍，并拥有强大的FAE团队支持能力，能帮助客户快速完成产品设计导入，为客户创造更多价值。
- 公司坚守绿色环保的发展观念，“关爱环保，净化排放”是公司的环境方针，不使用有害物质，生产绿色产品，不污染环境是我们产品的环保理念。自2004年起公司通过BVQI ISO 14001第三方认证以来，公司始终坚持促进经济可持续发展，预防污染，并将此理念向上级供应链传递。2010年开始，公司主动升级产品环保标准，公司产品全部满足ROHS、无卤、REACH等环保标准。
- 近年来，公司集中业务资源加快产品向工控、汽车电子应用领域的转型升级，着力打造华大半导体旗下功率器件和模拟电路业务平台，朝着成为国内一流的模拟集成电路和功率器件设计公司的目标不断努力。



# Index of Part Number-1 型号索引1

|         |    |          |    |           |    |            |    |              |    |          |    |          |    |
|---------|----|----------|----|-----------|----|------------|----|--------------|----|----------|----|----------|----|
| BL0906  | 20 | BL10N60A | 38 | BL1557    | 25 | BL24C32F   | 28 | BL2N70       | 38 | BL358L   | 24 | BL4N150  | 39 |
| BL0910  | 20 | BL10N65  | 38 | BL1558    | 25 | BL24C512A  | 28 | BL3085(I47)  | 23 | BL35N40  | 37 | BL4N60   | 38 |
| BL0921  | 20 | BL10N65A | 38 | BL1561    | 25 | BL24C512B  | 28 | BL3085A(H)   | 23 | BL3601   | 25 | BL4N60A  | 38 |
| BL0930F | 20 | BL10N70  | 39 | BL1587    | 23 | BL24C64A   | 28 | BL3085B      | 23 | BL3602   | 25 | BL4N65   | 38 |
| BL0937B | 20 | BL10N70A | 39 | BL1590    | 23 | BL24CM1A   | 28 | BL3085N(I56) | 23 | BL3604   | 25 | BL4N65A  | 38 |
| BL0939  | 20 | BL10N80  | 39 | BL15N20   | 36 | BL24CM2A   | 28 | BL30N20      | 36 | BL36N12L | 36 | BL4N70   | 38 |
| BL0940  | 20 | BL1117   | 10 | BL15N25   | 36 | BL24CS32   | 28 | BL30N20B     | 36 | BL3781   | 24 | BL4N70A  | 39 |
| BL0942  | 20 | BL1117C  | 10 | BL15N50   | 37 | BL24SA128B | 28 | BL30N30      | 37 | BL3782   | 24 | BL4N80   | 39 |
| BL0973  | 20 | BL1118   | 10 | BL18N20   | 36 | BL24SA128D | 28 | BL30N50      | 37 | BL3784   | 24 | BL4N80A  | 39 |
| BL1022  | 29 | BL113    | 26 | BL18N20L  | 36 | BL24SA64   | 28 | BL30N60      | 38 | BL3791   | 24 | BL4N80E  | 39 |
| BL1031  | 29 | BL11N40  | 37 | BL18N25   | 36 | BL24SA64B  | 28 | BL30N65      | 38 | BL3792   | 24 | BL4N90   | 39 |
| BL1032  | 29 | BL12N50  | 37 | BL1909    | 26 | BL24SA64C  | 28 | BL317B       | 14 | BL3794   | 24 | BL50N30  | 37 |
| BL1033  | 29 | BL12N60  | 38 | BL19N40   | 37 | BL24SA64D  | 28 | BL321        | 24 | BL3891   | 25 | BL5372   | 27 |
| BL1040  | 29 | BL12N60A | 38 | BL20N50   | 37 | BL2554     | 14 | BL321L       | 24 | BL3892   | 25 | BL55028  | 21 |
| BL1045  | 29 | BL12N65  | 38 | BL20N60   | 38 | BL2556     | 14 | BL324        | 24 | BL3894   | 25 | BL55066B | 21 |
| BL1063  | 29 | BL12N65A | 38 | BL20N65   | 38 | BL25CM1A   | 28 | BL324L       | 24 | BL3N100  | 39 | BL55072A | 21 |
| BL1064  | 29 | BL12N70  | 39 | BL23M1610 | 21 | BL25CM2A   | 28 | BL32F3202NP  | 21 | BL3N100E | 39 | BL55073  | 21 |
| BL1065  | 29 | BL12N70A | 39 | BL23N50   | 37 | BL25N15BL  | 36 | BL32F3210    | 21 | BL3N105  | 39 | BL55077  | 21 |
| BL1080  | 29 | BL13232E | 23 | BL24C02A  | 28 | BL25N15L   | 36 | BL32F3222NQ  | 21 | BL3N120  | 39 | BL55080  | 21 |
| BL1081  | 29 | BL13N25  | 36 | BL24C02F  | 28 | BL25N40    | 37 | BL32F3222NR  | 21 | BL3N150  | 39 | BL55088  | 21 |
| BL1082  | 29 | BL13N25L | 36 | BL24C04A  | 28 | BL25N50    | 37 | BL32F3232NQ  | 21 | BL3N90   | 39 | BL5610   | 26 |
| BL1083  | 29 | BL13N30  | 37 | BL24C04F  | 28 | BL25N60    | 38 | BL32F3232NR  | 21 | BL3N90E  | 39 | BL5612   | 26 |
| BL1084  | 10 | BL13N50  | 37 | BL24C08A  | 28 | BL25N65    | 38 | BL33N25      | 36 | BL4054B  | 11 | BL5616   | 26 |
| BL1085  | 10 | BL1511   | 23 | BL24C08F  | 28 | BL28N25    | 36 | BL33N25B     | 36 | BL4056C  | 11 | BL5617   | 26 |
| BL1086  | 29 | BL1511B  | 23 | BL24C128A | 28 | BL2N100    | 39 | BL34C02A     | 28 | BL40N25  | 36 | BL5633C  | 26 |
| BL1087  | 29 | BL1530   | 25 | BL24C16A  | 28 | BL2N150    | 39 | BL34C04A     | 28 | BL40N25B | 36 | BL5910   | 27 |
| BL1088  | 29 | BL1532   | 25 | BL24C16F  | 28 | BL2N50     | 37 | BL34TS04A    | 28 | BL40N30  | 37 | BL5912   | 27 |
| BL10N40 | 37 | BL1551B  | 25 | BL24C256A | 28 | BL2N60     | 38 | BL358        | 24 | BL40N30L | 37 | BL59N30  | 37 |
| BL10N60 | 38 | BL1555   | 25 | BL24C32A  | 28 | BL2N65     | 38 | BL358H       | 24 | BL4N120  | 39 | BL5N135  | 39 |



## Index of Part Number-2 型号索引2

|           |    |          |    |         |    |           |    |          |    |                    |    |                    |    |
|-----------|----|----------|----|---------|----|-----------|----|----------|----|--------------------|----|--------------------|----|
| BL5N50    | 37 | BL7122BH | 22 | BL8023C | 20 | BL8073G   | 06 | BL8563   | 05 | BL9162             | 08 | BLG40T65FDK-F/W    | 40 |
| BL5N50A   | 37 | BL7122BL | 22 | BL8023D | 20 | BL8074    | 06 | BL8563G  | 06 | BL9165             | 08 | BLG40T65FDL-W/F/K  | 40 |
| BL60N25   | 36 | BL7140NH | 22 | BL8023F | 20 | BL8074G   | 06 | BL8565   | 06 | BL9193             | 08 | BLG40T65FUK-W/F/K  | 40 |
| BL60N25B  | 36 | BL7140NL | 22 | BL8023H | 20 | BL8075    | 07 | BL8565G  | 06 | BL9315             | 02 | BLG40T65FUL-W/F    | 40 |
| BL6208    | 26 | BL7140SH | 23 | BL8023K | 20 | BL8077    | 07 | BL8566   | 07 | BL9342             | 02 | BLG50T65FDLA-W/F/K | 40 |
| BL6281G   | 25 | BL7140SL | 23 | BL8028  | 01 | BL8078    | 07 | BL8568   | 06 | BL9362             | 02 | BLG60T65FDK-W/F/K  | 40 |
| BL6306    | 25 | BL7140WH | 22 | BL8032  | 01 | BL8078Q   | 07 | BL8568G  | 06 | BL9366             | 02 | BLG60T65FDL-W/F/K  | 40 |
| BL6501A   | 20 | BL7140WL | 22 | BL8032G | 01 | BL8079    | 06 | BL8569   | 07 | BL9368             | 02 | BLG60T65FUL-W/F/K  | 40 |
| BL6503E   | 20 | BL7141NH | 22 | BL8032S | 01 | BL8079A   | 06 | BL8573   | 11 | BL9N20             | 36 | BLG75T65FDK-F      | 40 |
| BL6513C   | 20 | BL7141NL | 22 | BL8033  | 01 | BL8079AG  | 06 | BL8574   | 11 | BL9N20L            | 36 | BLG75T65FDL-F      | 40 |
| BL6523GX  | 20 | BL7141SH | 23 | BL8034  | 01 | BL8079G   | 06 | BL8576   | 11 | BL9N25             | 36 | BLG75T65FUK-F      | 40 |
| BL6552    | 20 | BL7141SL | 23 | BL8036  | 01 | BL80N20   | 36 | BL8601   | 26 | BL9N50             | 37 | BLL1575            | 07 |
| BL66A0242 | 21 | BL7141WH | 22 | BL8037  | 01 | BL80N20B  | 36 | BL8636   | 26 | BL9N90             | 39 | BLL1912            | 13 |
| BL6810    | 22 | BL7141WL | 22 | BL8038  | 01 | BL80N20BL | 36 | BL8802B  | 16 | BLAD14Q125         | 29 | BLL1970            | 13 |
| BL6N120   | 39 | BL7142NH | 23 | BL8039  | 01 | BL80N20L  | 36 | BL8812B  | 16 | BLAD14Q80          | 29 | BLL2206            | 01 |
| BL6N40    | 37 | BL7142NL | 23 | BL8042C | 04 | BL8202    | 26 | BL8837   | 26 | BLAD16D125         | 29 | BLL2310C           | 01 |
| BL6N40L   | 37 | BL7142SH | 23 | BL8042D | 04 | BL8203    | 26 | BL8851   | 16 | BLAD16D80          | 29 | BLL2311C           | 01 |
| BL6N70A   | 39 | BL7142SL | 23 | BL8060  | 07 | BL8288    | 26 | BL8891B  | 16 | BLAD16Q125         | 29 | BLL2452S           | 01 |
| BL70N20B  | 36 | BL7142WH | 22 | BL8061  | 07 | BL8310    | 26 | BL8N100  | 39 | BLAD16Q80          | 29 | BLL2453            | 01 |
| BL7120AH  | 22 | BL7142WL | 22 | BL8062  | 07 | BL8503    | 07 | BL8N50   | 37 | BLD2113            | 26 | BLL2620            | 01 |
| BL7120AL  | 22 | BL78L05D | 14 | BL8063  | 05 | BL8504    | 14 | BL8N50C  | 37 | BLG10T65FUL-D      | 40 | BLL2681            | 02 |
| BL7120BH  | 22 | BL78L05G | 14 | BL8063G | 05 | BL8506    | 14 | BL8N60   | 38 | BLG15T65FUA-A/B/P  | 40 | BLL2682            | 02 |
| BL7120BL  | 22 | BL7N60A  | 38 | BL8064  | 07 | BL8518    | 14 | BL8N65   | 38 | BLG15T65FUL-A/B/P  | 40 | BLL2683            | 02 |
| BL7121AH  | 22 | BL7N65   | 38 | BL8067  | 05 | BL8531    | 04 | BL90N25  | 37 | BLG200T120         | 40 | BLL2730            | 01 |
| BL7121AL  | 22 | BL7N65A  | 38 | BL8067A | 05 | BL8531C   | 04 | BL90N25B | 37 | BLG20T65FULA-A/P/F | 40 | BLL2731            | 01 |
| BL7121BH  | 22 | BL7N65B  | 38 | BL8071  | 06 | BL8536    | 04 | BL9110   | 07 | BLG3040-D/B/I      | 40 | BLL2735            | 01 |
| BL7121BL  | 22 | BL7N70   | 39 | BL8071G | 06 | BL8552    | 07 | BL9153   | 07 | BLG40T120FDH-F     | 40 | BLL2740            | 02 |
| BL7122AH  | 22 | BL7N70A  | 39 | BL8072  | 07 | BL8555    | 06 | BL9157   | 07 | BLG40T120FUH-F     | 40 | BLL2741            | 02 |
| BL7122AL  | 22 | BL8002   | 25 | BL8073  | 06 | BL8558    | 06 | BL9161G  | 07 | BLG40T120FUK-F     | 40 | BLL2741Q           | 02 |



# Index of Part Number-3 型号索引3

|           |    |           |    |                |    |                 |    |                 |    |             |    |          |    |
|-----------|----|-----------|----|----------------|----|-----------------|----|-----------------|----|-------------|----|----------|----|
| BLL2742   | 02 | BLM08P02  | 34 | BLM35N10L      | 34 | BLP036N08-Q     | 31 | BLP075N10G-D/Q  | 32 | BLR233      | 30 | ME2104   | 04 |
| BLL2745   | 02 | BLM09N68  | 34 | BLM40P04       | 35 | BLP038N10GL-D   | 32 | BLP075N10GL-D/Q | 32 | BLR240      | 30 | ME2107   | 04 |
| BLL2748   | 02 | BLM10N03  | 33 | BLM4407        | 34 | BLP039N08-P/B   | 31 | BLP075N10GL-P/B | 32 | BLR250      | 30 | ME2108   | 04 |
| BLL2752   | 02 | BLM10P03  | 34 | BLM4435        | 34 | BLP039N08-Q     | 31 | BLP075N10G-P/B  | 32 | BLS60R036   | 35 | ME2109   | 05 |
| BLL2770   | 02 | BLM12N03  | 33 | BLM4953        | 34 | BLP03N08-BA/T   | 31 | BLP08N10G-D/Q   | 32 | BLS60R150   | 35 | ME2110   | 05 |
| BLL2771   | 02 | BLM12N06  | 34 | BLM78P10       | 35 | BLP03N08-F      | 31 | BLP08N10G-P     | 32 | BLS60R150F  | 35 | ME2129   | 05 |
| BLL2783   | 02 | BLM12N06L | 33 | BLM8205B       | 33 | BLP03N08-P/B    | 31 | BLP12N10G-A     | 32 | BLS60R360   | 35 | ME2135   | 04 |
| BLL3330   | 04 | BLM12N08  | 34 | BLM90N10L      | 34 | BLP03N10-BA/T   | 32 | BLP12N10G-D/Q   | 32 | BLS60R380F  | 35 | ME2139   | 05 |
| BLL3330C  | 04 | BLM12P03  | 34 | BLM9435        | 34 | BLP03N10-F      | 32 | BLP12N10G-E     | 32 | BLS60R520   | 35 | ME2149   | 05 |
| BLL6028   | 11 | BLM14N08  | 34 | BLP012N08T     | 31 | BLP03N10-P/B    | 32 | BLP12N10GL-D    | 32 | BLS60R560EF | 35 | ME2159   | 05 |
| BLL6113C  | 11 | BLM15N06  | 33 | BLP014N10-T    | 33 | BLP042N10G-P/B  | 32 | BLP12N10GL-E    | 32 | BLS60R600EF | 35 | ME2167   | 04 |
| BLL6113D  | 11 | BLM15N06L | 33 | BLP018N08-P/B  | 31 | BLP042N15J-B    | 33 | BLP12N10GL-Q    | 32 | BLS65R041F  | 35 | ME2169   | 05 |
| BLL6115   | 11 | BLM15P04  | 35 | BLP018N10-F    | 33 | BLP045N10-A     | 32 | BLP12N10G-P     | 32 | BLS65R165   | 35 | ME2177   | 04 |
| BLM024N03 | 33 | BLM16N10  | 34 | BLP021N10-T    | 32 | BLP045N10-P/B   | 32 | BLP14N08L-D     | 31 | BLS65R380   | 35 | ME2179   | 05 |
| BLM039N03 | 33 | BLM17N04  | 33 | BLP022N08-T    | 31 | BLP04N08-P/B/BA | 31 | BLP14N08L-Q     | 31 | BLS65R560   | 35 | ME2185   | 04 |
| BLM03N03  | 33 | BLM22N10  | 34 | BLP022N10-BA   | 32 | BLP04N10-P/B    | 32 | BLP20N10L-D     | 31 | BLS70R180   | 35 | ME2186   | 04 |
| BLM04N03  | 33 | BLM2301   | 34 | BLP023N10-BA   | 33 | BLP055N09G-P/B  | 31 | BLP20N10L-E     | 31 | BLS70R420   | 35 | ME2187   | 04 |
| BLM04N06  | 34 | BLM2305   | 34 | BLP023N10-F    | 33 | BLP055N10-P/B   | 32 | BLP20N10L-Q     | 32 | BLS70R600   | 35 | ME2188   | 04 |
| BLM04N08  | 34 | BLM24N04  | 33 | BLP023N10-P/B  | 33 | BLP055N10-Q     | 32 | BLQG50T65FCKA-F | 40 | BLS80R1K0E  | 35 | ME2188-N | 04 |
| BLM055N04 | 33 | BLM28N04  | 33 | BLP023N10-T    | 33 | BLP05N08G-P/B   | 31 | BLQG50T65FDLA-F | 40 | BLS80R760   | 35 | ME2190   | 05 |
| BLM06N03  | 33 | BLM30N06L | 33 | BLP024N10-T/BA | 32 | BLP05N08G-Q     | 31 | BLQG50T65FKA-F  | 40 | BLS80R990   | 35 | ME2199   | 05 |
| BLM06N08  | 34 | BLM30N10  | 34 | BLP025N10-P/B  | 32 | BLP065N08G-D    | 31 | BLR120          | 30 | BLX85063    | 27 | ME2206-N | 13 |
| BLM06N10  | 34 | BLM30N10L | 34 | BLP026N08-P/B  | 31 | BLP065N08GL-D   | 31 | BLR125          | 30 | BLX8563     | 27 | ME2209   | 13 |
| BLM075N03 | 33 | BLM30P04  | 35 | BLP028N10-P/B  | 32 | BLP065N08GL-E   | 31 | BLR133          | 30 | BS108       | 36 | ME2212   | 13 |
| BLM075N04 | 33 | BLM3400   | 33 | BLP02N08-BA    | 31 | BLP065N08GL-Q   | 31 | BLR140          | 30 | BSP304      | 39 | ME2214   | 13 |
| BLM07N06  | 34 | BLM3401   | 34 | BLP02N08-F     | 31 | BLP065N08G-P/B  | 31 | BLR150          | 30 | ME1117      | 11 | ME2215   | 13 |
| BLM08N06  | 34 | BLM3404   | 33 | BLP02N08-P/B   | 31 | BLP065N08G-Q    | 31 | BLR220          | 30 | ME1501      | 14 | ME2216   | 13 |
| BLM08N10  | 34 | BLM3407   | 34 | BLP02N08-T     | 31 | BLP065N10GL-D/Q | 32 | BLR225          | 30 | ME1502      | 14 | ME2803   | 15 |
| BLM08N68  | 34 | BLM35N10  | 34 | BLP032N08-T    | 31 | BLP065N10GL-P   | 32 | BLR230          | 30 | ME2101      | 04 | ME2804   | 15 |



## Index of Part Number-4 型号索引4

|          |    |          |    |         |    |          |    |             |    |           |    |            |    |
|----------|----|----------|----|---------|----|----------|----|-------------|----|-----------|----|------------|----|
| ME2805   | 15 | ME3146   | 03 | ME4211  | 13 | ME6213   | 08 | ME6306      | 08 | ME8213    | 17 | ME8615     | 18 |
| ME2805-N | 15 | ME3148   | 03 | ME4212  | 13 | ME6214   | 09 | ME6307      | 09 | ME8224    | 17 | ME8617     | 18 |
| ME2806   | 15 | ME3201   | 03 | ME4214  | 13 | ME6215   | 09 | ME6322      | 08 | ME8224-N  | 17 | ME8620     | 18 |
| ME2806-N | 15 | ME3843   | 17 | ME4222  | 13 | ME6216   | 08 | ME6330      | 08 | ME8228    | 17 | ME8621     | 18 |
| ME2807   | 15 | ME4051   | 12 | ME4312B | 19 | ME6217   | 09 | ME6401      | 09 | ME8230    | 17 | ME8624     | 18 |
| ME2808   | 15 | ME4052   | 12 | ME4312C | 19 | ME6218   | 09 | ME6403      | 15 | ME8250    | 17 | ME8628     | 18 |
| ME2815   | 15 | ME4054-N | 12 | ME4313B | 19 | ME6219   | 08 | ME6404      | 15 | ME8311    | 16 | MEB78L05   | 11 |
| ME2816   | 15 | ME4055   | 12 | ME4313C | 19 | ME6220   | 08 | ME7610      | 13 | ME8317    | 16 | MEB78M05   | 11 |
| ME3100   | 03 | ME4055-N | 12 | ME4315  | 19 | ME6221   | 09 | ME7612      | 13 | ME8320-N  | 16 | MEI2001    | 05 |
| ME3102   | 03 | ME4056   | 12 | ME4315L | 19 | ME6222   | 09 | ME7660      | 15 | ME8321-N  | 16 | MEI3001    | 03 |
| ME3103   | 03 | ME4056-N | 12 | ME431A  | 19 | ME6226   | 08 | ME7805      | 11 | ME8325-N  | 16 | MEL7136    | 13 |
| ME3104-N | 03 | ME4057   | 12 | ME431B  | 19 | ME6228   | 10 | ME78L05     | 11 | ME8326    | 18 | MEL71XX    | 13 |
| ME3107   | 03 | ME4057-N | 12 | ME431C  | 19 | ME6230   | 08 | ME78M05     | 11 | ME8327    | 16 | MEL71XX-N  | 13 |
| ME3108   | 03 | ME4058   | 12 | ME431D  | 19 | ME6231   | 09 | ME8103      | 17 | ME8327-N  | 16 | MEQ431A    | 19 |
| ME3109   | 03 | ME4059-N | 12 | ME431L  | 19 | ME6232   | 08 | ME8107A/B/C | 17 | ME8328    | 16 | MEQ6310    | 09 |
| ME3110   | 03 | ME4064   | 12 | ME432A  | 19 | ME6233   | 10 | ME8112      | 17 | ME8329-N  | 16 | MEQDS92630 | 13 |
| ME3111   | 03 | ME4064-N | 12 | ME432B  | 19 | ME6234   | 10 | ME8113      | 17 | ME8411-N  | 18 | MET1117    | 11 |
| ME3112   | 03 | ME4069   | 12 | ME6118  | 10 | ME6239   | 10 | ME8115A/C/E | 17 | ME8413    | 18 | SA2530     | 27 |
| ME3113   | 03 | ME4074   | 12 | ME6119  | 09 | ME6241   | 09 | ME8115B/D/F | 17 | ME8414    | 18 | SA2531     | 27 |
| ME3114   | 03 | ME4075   | 12 | ME6203  | 10 | ME6249   | 09 | ME8116      | 17 | ME8415    | 18 | SA2532     | 27 |
| ME3116   | 03 | ME4084   | 12 | ME6206A | 08 | ME6251   | 09 | ME8117      | 17 | ME8417    | 18 | SA2602     | 26 |
| ME3118   | 03 | ME4085   | 12 | ME6206B | 08 | ME6261   | 10 | ME8123      | 17 | ME8418    | 18 | SA2603     | 26 |
| ME3121   | 03 | ME4086A  | 12 | ME6207  | 09 | ME6262   | 10 | ME8125      | 17 | ME8604    | 18 | SA2604     | 26 |
| ME3123   | 03 | ME4086E  | 12 | ME6208  | 09 | ME6263   | 10 | ME8129      | 17 | ME8608-N  | 18 | SA2605     | 26 |
| ME3125   | 03 | ME4094   | 12 | ME6209  | 09 | ME6267   | 10 | ME8155      | 17 | ME8608-N1 | 18 | SA8870     | 26 |
| ME3131   | 03 | ME4101   | 12 | ME6210  | 09 | ME6268   | 10 | ME8165      | 17 | ME8608-N2 | 18 | ULN2003    | 27 |
| ME3136   | 03 | ME4102   | 12 | ME6211  | 09 | ME6301   | 08 | ME8200-N    | 17 | ME8610    | 18 | ULN2803    | 27 |
| ME3141   | 03 | ME4210   | 13 | ME6212  | 09 | ME6301-N | 08 | ME8206      | 17 | ME8611    | 18 | ULN2803L   | 27 |





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