



PRODUCT SELECTION GUIDE

Q1 2025





SGMICRO OVERVIEW

SGMICRO specializes in high-performance and high-quality analog and mixed-signal integrated circuits, and is committed to building a comprehensive portfolio of the highest quality analog and mixed-signal integrated circuits to address all customer needs. Reliability and consistency have been fundamental product requirements since the company's inception. Customer needs have directed the company's portfolio growth, with innovation and continuous improvement processes that assure customer satisfaction.

In its early days, SGMICRO targeted industrial markets with a line of high-performance operational amplifiers and LDOs. As a fabless analog semiconductor company, SGMICRO partnered with TSMC to manufacture its wafers, and successfully developed low-noise, high-precision, high-speed products utilizing CMOS technology to cost-effectively replace traditional bipolar technology products. This earned the company a reputation for technical expertise as well as cost advantage in the market.

With a growing base of loyal customers, SGMICRO soon expanded its portfolio of analog and mixed-signal products to address the entire signal chain and developed a complete line of power management solutions. The company continues to proliferate its product lines based on customer requirements and technology trends, entering new market segments every year.

SGMICRO's commitment to quality demands continuous improvement, which has created rigorous systematic quality assurance and supply chain management systems that ensure trouble-free service and short lead-time deliveries to its customers. In addition, all SGMICRO products meet RoHS regulations and environmental standards.

The company takes great pride in an excellent record of balance sheet stability and profitability while achieving rapid and sustained growth. Leadership is still provided by the founding members, and the company benefits from an exceptionally low employee turnover rate. SGMICRO has been profitable every year since 2009.

SGMICRO went public on June 6, 2017 on the Shenzhen Stock Exchange under stock code 300661. SGMICRO strives to be a leading global supplier of analog IC solutions to serve all market segments, with special attention to industrial applications. The company fosters direct cooperation with top brand manufacturers around the world in the fields of factory automation, solar inverter and energy storage systems, new energy vehicles, lithium ion battery formation, major household appliances, 5G wireless base stations, optical fiber transceiver modules, office automation equipment, machine vision, smart phones and smart accessories, virtual reality, gaming consoles, audio systems, video systems, and more.

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Nano Power Operational Amplifier

Amplifiers per Package	Part Number	I _Q /Amp Typ (μA)	Shut- down	V _{CC} (V)	GBP Typ (kHz)	Slew Rate Typ (V/ms)	E _{NOISE} 0.1Hz ~ 10Hz (μV _{PP})	E _{NOISE} Typ @1kHz (nV/√Hz)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
1	SGM8040-1	0.55	No	1.4 ~ 5.5	11	4	5	180	0.23	1	10	120	92	Yes	Yes	SOT-23-5,SC70-5,SOIC-8	Very Low Quiescent Current, Rail-to-Rail Input and Output
2	SGM8040-2	0.55	No	1.4 ~ 5.5	11	4	5	180	0.23	1	10	120	92	Yes	Yes	TDFN-2×2-8L,SOIC-8	Very Low Quiescent Current, Rail-to-Rail Input and Output
1	SGM8041	0.71	No	1.4 ~ 5.5	14.5	3.3	3.4	135	2.5	2.5	1	93	84	Yes	Yes	SOT-23-5,SOIC-8,MSOP-8	Very Low Quiescent Current, Rail-to-Rail Input and Output
2	SGM8042	0.67	No	1.4 ~ 5.5	14.5	4.2	3.2	180	2.5	2.5	1	93	84	Yes	Yes	SOIC-8,MSOP-8	Very Low Quiescent Current, Rail-to-Rail Input and Output
4	SGM8044	0.67	No	1.4 ~ 5.5	15	3.4	3.2	190	2.5	2.5	1	93	83	Yes	Yes	SOIC-14,TSSOP-14,TQFN-3×3-16L	Very Low Quiescent Current, Rail-to-Rail Input and Output
1	SGM8045	0.71	No	1.4 ~ 5.5	100	16	3.2	160	2.5	2.5	1	93	84	Yes	Yes	SOT-23-5,SOIC-8,MSOP-8	Stable for Gain of 10, 100kHz, Very Low I _Q , RRIO
2	SGM8046	0.67	No	1.4 ~ 5.5	100	14.5	3	190	2.5	2.5	1	92	82	Yes	Yes	SOIC-8,MSOP-8	Stable for Gain of 10, 100kHz, Very Low I _Q , RRIO
4	SGM8048	0.69	No	1.4 ~ 5.5	100	14.5	3.5	205	2.5	2.5	1	92	83	Yes	Yes	SOIC-14,TSSOP-14	Stable for Gain of 10, 100kHz, Very Low I _Q , RRIO
1	SGM8141	0.38	No	1.4 ~ 5.5	5	1.5	4.9	125	2.5	2	1	90	80	Yes	Yes	SOT-23-5,SOIC-8,MSOP-8	Ultra Low Quiescent Current, Rail-to-Rail Input and Output
2	SGM8142	0.35	No	1.4 ~ 5.5	5	1.6	4	130	2.5	2	1	93	83	Yes	Yes	SOIC-8,MSOP-8	Ultra Low Quiescent Current, Rail-to-Rail Input and Output

Micro Power Operational Amplifier

Amplifiers per Package	Part Number	I _Q /Amp Typ (μA)	Shut- down	V _{CC} (V)	GBP Typ (MHz)	Slew Rate Typ (V/ms)	E _{NOISE} 0.1Hz ~ 10Hz (μV _{PP})	E _{NOISE} Typ @1kHz (nV/√Hz)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
1	SGM321	60	No	2.1 ~ 5.5	1	520		27	5	2.7	10	84	68	Yes	Yes	SC70-5,SOT-23-5	General Purpose Low Power Amp
4	SGM324	60	No	2.1 ~ 5.5	1	520		27	5	2.7	10	84	68	Yes	Yes	SOIC-14,TSSOP-14	General Purpose Low Power Amp
2	SGM358	60	No	2.1 ~ 5.5	1	520		27	5	2.7	10	84	68	Yes	Yes	SOIC-8,MSOP-8,DIP-8	General Purpose Low Power Amp
1	SGM8038-1	6	No	1.4 ~ 5.5	0.145	130	6	110	0.8	3	2	125	94	Yes	Yes	SOT-23-5,SC70-5,SOIC-8	High Precision, Rail-to-Rail Input and Output
2	SGM8038-2	6	No	1.4 ~ 5.5	0.145	130	6	110	0.8	3	2	125	94	Yes	Yes	SOT-23-8,SOIC-8,TDFN-2×2-8L	High Precision, Rail-to-Rail Input and Output
1	SGM8049-1	2.5	No	1.8 ~ 5.5	0.12	80	3.5	75	0.85	0.6	1	118	100	Yes	Yes	SOT-23-5,SC70-5,TDFN-2×2-6L	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output
2	SGM8049-2	2.5	No	1.8 ~ 5.5	0.12	80	3.5	75	0.85	0.6	1	118	100	Yes	Yes	SOT-23-8,SOIC-8	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output
4	SGM8049-4	2.5	No	1.8 ~ 5.5	0.12	80	3.5	75	0.85	0.6	1	118	100	Yes	Yes	TSSOP-14	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output
1	SGM8210-1	50	No	3.3 ~ 24	1	300	3	25	1	1	5	120	115	Yes	Yes	SOT-23-5,SC70-5	High Voltage, Micro Power, Precision
2	SGM8210-2	50	No	3.3 ~ 24	1	300	3	25	1	1	5	120	115	Yes	Yes	SOIC-8,MSOP-8,TDFN-2×3-8L	High Voltage, Micro Power, Precision
4	SGM8210-4	50	No	3.3 ~ 24	1	300	3	25	1	1	5	120	115	Yes	Yes	SOIC-14	High Voltage, Micro Power, Precision
1	SGM8240-1	2.8	No	2.7 ~ 24	0.1	50	3	100	1	3	5	120	110	Yes	Yes	SC70-5,SOT-23-5	High Voltage, Micro Power, Precision
2	SGM8240-2	2.8	No	2.7 ~ 24	0.1	50	3	100	1	3	5	120	110	Yes	Yes	TDFN-2×3-8L,SOIC-8,MSOP-8	High Voltage, Micro Power, Precision
4	SGM8240-4	2.8	No	2.7 ~ 24	0.1	50	3	100	1	3	5	120	110	Yes	Yes	SOIC-14	High Voltage, Micro Power, Precision

Micro Power Operational Amplifier

Amplifiers per Package	Part Number	I _Q /Amp Typ (μA)	Shut- down	V _{CC} (V)	GBP Typ (MHz)	Slew Rate Typ (V/ms)	E _{NOISE} 0.1Hz ~ 10Hz (μV _{PP})	E _{NOISE} Typ @1kHz (nV/√Hz)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
1	SGM8271	150	No	4.5 ~ 36	1.4	7000		43	3	3	20	100	95	No	Yes	SOT-23-5,SOIC-8,MSOP-8	1.4MHz, 7V/μs, Low Power, Rail-to-Rail Output
2	SGM8272	150	No	4.5 ~ 36	1.4	7000		43	3	3	20	100	95	No	Yes	SOIC-8,MSOP-8	1.4MHz, 7V/μs, Low Power, Rail-to-Rail Output
4	SGM8274	150	No	4.5 ~ 36	1.4	7000		43	3	3	20	100	95	No	Yes	SOIC-14,TSSOP-14	1.4MHz, 7V/μs, Low Power, Rail-to-Rail Output
1	SGM8521	5.5	No	2.1 ~ 5.5	0.15	50		85	3.5	2	3	110	87	Yes	Yes	SOT-23-5,SOIC-8	Low Bias Current, Micro Power, Rail-to-Rail Input and Output
2	SGM8522	5.5	No	2.1 ~ 5.5	0.15	50		85	3.5	2	3	110	87	Yes	Yes	SOIC-8,MSOP-8	Low Bias Current, Micro Power, Rail-to-Rail Input and Output
4	SGM8524	5.5	No	2.1 ~ 5.5	0.15	50		85	3.5	2	3	110	87	Yes	Yes	SOIC-14,TSSOP-14	Low Bias Current, Micro Power, Rail-to-Rail Input and Output
1	SGM8531	18	No	2.1 ~ 5.5	0.5	200		33	3.5	1.7	0.5	104	75	Yes	Yes	SOT-23-5,SOIC-8	Low Bias Current, Micro Power, Rail-to-Rail Input and Output
2	SGM8532	18	No	2.1 ~ 5.5	0.5	200		33	3.5	1.7	0.5	104	75	Yes	Yes	SOIC-8,MSOP-8	Low Bias Current, Micro Power, Rail-to-Rail Input and Output
4	SGM8534	18	No	2.1 ~ 5.5	0.5	200		33	3.5	1.7	0.5	104	75	Yes	Yes	SOIC-14,TSSOP-14	Low Bias Current, Micro Power, Rail-to-Rail Input and Output
1	SGM8535	80	No	1.8 ~ 5.5	1.5	800		30	3.4	1.5	3	103	85	No	Yes	SOT-23-5,SC70-5,SOIC-8,MSOP-8	1.5MHz, 1.8V, Unity-Gain Stable, Rail-to-Rail Output
2	SGM8536	80	No	1.8 ~ 5.5	1.5	800		30	3.4	1.5	3	103	85	No	Yes	SOIC-8,MSOP-8	1.5MHz, 1.8V, Unity-Gain Stable, Rail-to-Rail Output
1	SGM8537	80	Yes	1.8 ~ 5.5	1.5	800		30	3.4	1.5	3	103	85	No	Yes	SOT-23-6,SOIC-8,MSOP-8	1.5MHz, 1.8V, Unity-Gain Stable, Rail-to-Rail Output
4	SGM8538	80	No	1.8 ~ 5.5	1.5	800		30	3.4	1.5	3	103	85	No	Yes	SOIC-14,TSSOP-14	1.5MHz, 1.8V, Unity-Gain Stable, Rail-to-Rail Output
1	SGM8541	46	No	2.1 ~ 5.5	1.1	520		27	3.5	2.7	0.5	105	80	Yes	Yes	SOT-23-5,SOIC-8,SC70-5	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output
2	SGM8542	46	No	2.1 ~ 5.5	1.1	520		27	3.5	2.7	0.5	105	80	Yes	Yes	SOIC-8,MSOP-8,TSSOP-8	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output
1	SGM8543	48	Yes	2.1 ~ 5.5	1.1	520		27	3.5	2.7	0.5	105	76	Yes	Yes	SOT-23-6,SOIC-8	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output
4	SGM8544	46	No	2.1 ~ 5.5	1.1	520		27	3.5	2.7	0.5	105	80	Yes	Yes	SOIC-14,TSSOP-14	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output
1	SGM8545	48	No	2.1 ~ 5.5	1.1	520		27	3.5	2.7	0.5	105	76	Yes	Yes	SOT-23-5	Pico Amp Input Current, Micro Power, Rail-to-Rail Input and Output

High Speed Operational Amplifier

Amplifiers per Package	Part Number	GBP Typ (MHz)	Bandwidth @-3dB (MHz)	Shut- down	V _{CC} (V)	Slew Rate Typ (V/μs)	E _{NOISE} Typ @1MHz (nV/√Hz)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	I _Q /Amp Typ (mA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
1	SGM8051		250	No	2.5 ~ 5.5	130	8.1	8	4.4	6	2.3	104	80	No	Yes	SOT-23-5,SOIC-8	250MHz Rail-to-Rail Output Amp
2	SGM8052		250	No	2.5 ~ 5.5	130	8.1	8	4.4	6	2.3	104	80	No	Yes	SOIC-8,MSOP-8	250MHz Rail-to-Rail Output Amp
1	SGM8053		250	Yes	2.5 ~ 5.5	130	8.1	8	4.4	6	2.3	104	80	No	Yes	SOT-23-6,SOIC-8	250MHz Rail-to-Rail Output Amp with Shutdown
4	SGM8054		250	No	2.5 ~ 5.5	130	8.1	8	4.4	6	2.3	104	80	No	Yes	SOIC-14,TSSOP-14	250MHz Rail-to-Rail Output Amp
2	SGM8055		250	Yes	2.5 ~ 5.5	130	8.1	8	4.4	6	2.3	104	80	No	Yes	MSOP-10	250MHz Rail-to-Rail Output Amp with Shutdown
1	SGM80581	100	220	No	2.5 ~ 5.5	160	7	3	6.5	2	4.5	109	71	Yes	Yes	SOT-23-5,SOIC-8	220MHz Rail-to-Rail Input and Output Amp
2	SGM80582	100	220	No	2.5 ~ 5.5	160	7	3	6.5	2	4.5	109	71	Yes	Yes	SOIC-8,MSOP-8	220MHz Rail-to-Rail Input and Output Amp

High Speed Operational Amplifier

Amplifiers per Package	Part Number	GBP Typ (MHz)	Bandwidth @-3dB (MHz)	Shut- down	V _{CC} (V)	Slew Rate Typ (V/μs)	E _{NOISE} Typ @1MHz (nV/√Hz)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	I _O /Amp Typ (mA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
4	SGM80584	100	220	No	2.5 ~ 5.5	160	7	3	6.5	2	4.5	109	71	Yes	Yes	SOIC-14	220MHz Rail-to-Rail Input and Output Amp
1	SGM8061		500	No	2.5 ~ 5.5	420	5.6	8	3	6	8.2	104	80	No	Yes	SOT-23-5,SOIC-8	500MHz Rail-to-Rail Output Amp
2	SGM8062		500	No	2.5 ~ 5.5	420	5.6	8	3	6	8.2	104	80	No	Yes	SOIC-8,MSOP-8	500MHz Rail-to-Rail Output Amp
1	SGM8063		500	Yes	2.5 ~ 5.5	420	5.6	8	3	6	8.2	104	80	No	Yes	SOT-23-6,SOIC-8	500MHz Rail-to-Rail Output Amp with Shutdown
1	SGM8091		350	No	2.5 ~ 5.5	265	5.9	8	3.7	6	4.3	104	80	No	Yes	SOT-23-5,SOIC-8	350MHz Rail-to-Rail Output Amp
2	SGM8092		350	No	2.5 ~ 5.5	265	5.9	8	3.7	6	4.3	104	80	No	Yes	SOIC-8,MSOP-8	350MHz Rail-to-Rail Output Amp
1	SGM8093		350	Yes	2.5 ~ 5.5	265	5.9	8	3.7	6	4.3	104	80	No	Yes	SOT-23-6,SOIC-8	350MHz Rail-to-Rail Output Amp with Shutdown
4	SGM8094		350	No	2.5 ~ 5.5	265	5.9	8	3.7	6	4.3	104	80	No	Yes	SOIC-14,TSSOP-14	350MHz Rail-to-Rail Output Amp
1	SGM8301	57	110	No	4.5 ~ 12	140	65 ^{††}	18	12		7.5	105	75	No	Yes	SOT-23-5,SOIC-8,MSOP-8	110MHz High Voltage Rail-to-Rail Output Amp
2	SGM8302	57	110	No	4.5 ~ 12	140	65 ^{††}	18	12		7.5	105	75	No	Yes	SOIC-8,MSOP-8	110MHz High Voltage Rail-to-Rail Output Amp
4	SGM8304	57	110	No	4.5 ~ 12	140	65 ^{††}	18	12		7.5	105	75	No	Yes	SOIC-14,TSSOP-14	110MHz High Voltage Rail-to-Rail Output Amp
1	SGM8306-1	48	100	No	4.5 ~ 16	190	105 ^{†††}	8	8.3	50	7.8	70	80	No	Yes	SOT-23-5,SOIC-8,MSOP-8	100MHz High Voltage Rail-to-Rail Output Amp
2	SGM8306-2	48	100	No	4.5 ~ 16	190	105 ^{†††}	8	8.3	50	7.8	70	80	No	Yes	SOIC-8,MSOP-8	100MHz High Voltage Rail-to-Rail Output Amp
2	SGM8307-2	75	135	No	2.8 ~ 12	150	14	6	20	100	4.25	110	80	No	Yes	SOIC-8	75MHz Rail-to-Rail Output Amp
1	SGM8965A-1	50		No	2.2 ~ 5.5	30	5.5 [†]	0.28	1.4	1	5	118	94	Yes	Yes	SOT-23-5,SOIC-8	50MHz High Precision Amp
2	SGM8965A-2	50		No	2.2 ~ 5.5	30	5.5 [†]	0.28	1.4	1	5	118	94	Yes	Yes	MSOP-8,SOIC-8	50MHz High Precision Amp

Notes: † Typical Values @ 100kHz
†† Typical Values @ 10kHz
††† Typical Values @ 1kHz

High Precision Operational Amplifier

Amplifiers per Package	Part Number	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	Shut- down	V _{CC} (V)	GBP Typ (MHz)	Slew Rate Typ (V/μs)	E _{NOISE} 0.1Hz ~ 10Hz (μV _{PP})	E _{NOISE} Typ @1kHz (nV/√Hz)	I _O /Amp Typ (μA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
1	SGM8249-1	0.01	0.012	100	No	4.5 ~ 36	8	6	0.2	10	850	150	140	No	Yes	SOT-23-5,SOIC-8	High Voltage, High Precision, Low Noise, Rail-to-Rail Output
2	SGM8249-2	0.01	0.012	100	No	4.5 ~ 36	8	6	0.2	10	850	150	140	No	Yes	SOIC-8	High Voltage, High Precision, Low Noise, Rail-to-Rail Output
4	SGM8249-4	0.012	0.014	100	No	4.5 ~ 36	8	5	0.2	12	800	150	140	No	Yes	SOIC-14,TSSOP-14	High Voltage, High Precision, Low Noise, Rail-to-Rail Output

High Precision Operational Amplifier

Amplifiers per Package	Part Number	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	Shut- down	V _{CC} (V)	GBP Typ (MHz)	Slew Rate Typ (V/μs)	E _{NOISE} 0.1Hz ~ 10Hz (μV _{PP})	E _{NOISE} Typ @1kHz (nV/√Hz)	I _Q /Amp Typ (μA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
1	SGM8250-1	0.05	0.11	80	No	3 ~ 24	0.35	0.09	0.85	40	50	145	130	Yes	Yes	SOT-23-5,SC70-5,SOIC-8	High Voltage, Micro Power, Zero-Drift
2	SGM8250-2	0.05	0.11	80	No	3 ~ 24	0.35	0.09	0.85	40	50	145	130	Yes	Yes	SOIC-8,TDFN-3×3-8L	High Voltage, Micro Power, Zero-Drift
1	SGM8251	0.018	0.02	100	No	4.5 ~ 36	2.8	1.3	0.4	20	450	150	135	No	Yes	SOT-23-5,SOIC-8,MSOP-8	High Voltage, High Precision, Low Noise
2	SGM8252A	0.018	0.02	100	No	4.5 ~ 36	2.8	1.3	0.4	20	450	150	135	No	Yes	SOIC-8,MSOP-8	High Voltage, High Precision, Low Noise
2	SGM8253-2	0.018	0.037	200	No	4.5 ~ 36	12	12	0.2	10.5	1200	160	146	Yes	Yes	SOIC-8,MSOP-8	High Voltage, High Precision, Low Noise, RRIO
1	SGM8255A-1	0.025	0.018	100	No	4.5 ~ 36	8.5	5	0.2	12	850	150	135	No	Yes	SOT-23-5,SOIC-8,MSOP-8	High Voltage, High Precision, Low Noise
2	SGM8255A-2	0.025	0.018	100	No	4.5 ~ 36	8.5	5	0.2	12	850	150	135	No	Yes	SOIC-8,MSOP-8	High Voltage, High Precision, Low Noise
1	SGM8277-1	0.18	1.7	10	No	4 ~ 36	4	3.5	2	9 [†]	1100	140	130	No	Yes	SOIC-8,TDFN-3×3-8L	4MHz, High Voltage, Precision, Low Noise, Rail-to-Rail Output
2	SGM8277-2	0.18	1.7	10	No	4 ~ 36	4	3.5	2	9 [†]	1100	140	130	No	Yes	SOIC-8,MSOP-8,TDFN-3×3-8L	4MHz, High Voltage, Precision, Low Noise, Rail-to-Rail Output
1	SGM8290	1.5	3	20	No	4.5 ~ 36	1.4	7		43	150	100	95	No	Yes	SOT-23-5	High Voltage, Precision, Low Power, Rail-to-Rail Output
1	SGM8291	1.5	3	20	No	4.5 ~ 36	1.4	7		43	150	100	95	No	Yes	SOT-23-5,SOIC-8,MSOP-8	High Voltage, Precision, Low Power, Rail-to-Rail Output
2	SGM8292	1.5	3	20	No	4.5 ~ 36	1.4	7		43	150	100	95	No	Yes	SOIC-8,MSOP-8	High Voltage, Precision, Low Power, Rail-to-Rail Output
4	SGM8294	1.5	3	20	No	4.5 ~ 36	1.4	7		43	150	100	95	No	Yes	SOIC-14,TSSOP-14	High Voltage, Precision, Low Power, Rail-to-Rail Output
1	SGM8551	0.02	0.02	10	No	2.5 ~ 5.5	1.53	0.9	0.8	47.5	930	145	105	Yes	Yes	SOT-23-5,SOIC-8,MSOP-8	High Precision, Low Noise, Zero-Drift
2	SGM8552	0.02	0.02	10	No	2.5 ~ 5.5	1.53	0.9	0.8	47.5	465	145	105	Yes	Yes	SOIC-8,MSOP-8	High Precision, Low Noise, Zero-Drift
4	SGM8554	0.025	0.07	10	No	2.5 ~ 5.5	1.5	1	1.6	63	465	145	105	Yes	Yes	SOIC-14,TSSOP-14	High Precision, Low Noise, Zero-Drift
1	SGM8555	0.09	0.05	30	No	2.5 ~ 5.5	3.5	3	0.6	21	950	133	98	Yes	Yes	SOT-23-5,SOIC-8,MSOP-8	3.5MHz, 3V/μs, High Precision, Low Noise, RRIO
2	SGM8556	0.09	0.05	30	No	2.5 ~ 5.5	3.5	3	0.6	21	950	133	98	Yes	Yes	SOIC-8,MSOP-8	3.5MHz, 3V/μs, High Precision, Low Noise, RRIO
1	SGM8557-1	0.005	0.027	240	No	2.7 ~ 5.5	15	7	0.5	30	1150	144	120	Yes	Yes	SOT-23-5,SOIC-8,MSOP-8	High Precision, Low Noise, Zero-Drift
2	SGM8557-2	0.005	0.027	240	No	2.7 ~ 5.5	15	7	0.5	30	1150	144	120	Yes	Yes	SOIC-8,MSOP-8	High Precision, Low Noise, Zero-Drift
1	SGM8557-3	0.005	0.027	240	Yes	2.7 ~ 5.5	15	7	0.5	30	1150	144	120	Yes	Yes	SOT-23-6,SOIC-8	High Precision, Low Noise, Zero-Drift, Single Amp with Shutdown
2	SGM8557-5	0.005	0.027	240	Yes	2.7 ~ 5.5	15	7	0.5	30	1150	144	120	Yes	Yes	MSOP-10	High Precision, Low Noise, Zero-Drift, Dual Amps with Shutdown
1	SGM8558-1	0.015	0.013	600	No	2.8 ~ 5.5	15	8	0.2	8	860	139	126	No	Yes	SOT-23-5,SOIC-8	High Precision, Low Noise, Zero-Drift
2	SGM8558-2	0.015	0.013	600	No	2.8 ~ 5.5	15	8	0.2	8	860	139	126	No	Yes	TDFN-3×3-8L,SOIC-8,WLCSP-1.45×1.45-8B	High Precision, Low Noise, Zero-Drift
1	SGM8558-3	0.015	0.013	600	Yes	2.8 ~ 5.5	15	8	0.2	8	860	139	126	No	Yes	SOT-23-6	High Precision, Low Noise, Zero-Drift, Single Amp with Shutdown
4	SGM8558-4	0.015	0.013	600	No	2.8 ~ 5.5	15	8	0.2	8	860	139	126	No	Yes	SOIC-14	High Precision, Low Noise, Zero-Drift
1	SGM8581	0.1	0.1	15	No	2.5 ~ 5.5	1.45	0.75	0.85	47.5	445	145	90	Yes	Yes	SOT-23-5,SOIC-8,MSOP-8	High Precision, Low Noise, Zero-Drift
2	SGM8582	0.1	0.1	15	No	2.5 ~ 5.5	1.5	0.9	0.8	49	430	145	95	Yes	Yes	SOIC-8,MSOP-8	High Precision, Low Noise, Zero-Drift
4	SGM8584	0.1	0.15	60	No	2.5 ~ 5.5	1.5	0.9	1.4	78	430	135	92	Yes	Yes	SOIC-14,TSSOP-14	High Precision, Low Noise, Zero-Drift

Note: † Typical Values @ 10kHz

High Precision Operational Amplifier

Amplifiers per Package	Part Number	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	I _B Typ (pA)	Shut- down	V _{CC} (V)	GBP Typ (MHz)	Slew Rate Typ (V/μs)	E _{NOISE} 0.1Hz ~ 10Hz (μV _{PP})	E _{NOISE} Typ @1kHz (nV/√Hz)	I _Q /Amp Typ (μA)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to -Rail Input	Rail-to -Rail Output	Package	Features
1	SGM8591	0.5	0.2	15	No	2.5 ~ 5.5	1.45	0.75	0.85	47.5	445	145	90	Yes	Yes	SOT-23-5,SOIC-8	High Precision, Low Noise, Zero-Drift
2	SGM8592	0.5	0.2	15	No	2.5 ~ 5.5	1.5	0.9	0.8	49	430	145	95	Yes	Yes	SOIC-8,MSOP-8	High Precision, Low Noise, Zero-Drift
4	SGM8594	0.45	0.2	60	No	2.5 ~ 5.5	1.5	0.9	1.4	78	480	118	92	Yes	Yes	SOIC-14,TSSOP-14	High Precision, Low Noise, Zero-Drift
2	SGM8922A	0.9	1.6		No	3.0 ~ 5.5	12.7	6.8		6	3000	104	108	No	Yes	SOIC-8,MSOP-8,TSSOP-8	High Precision, 300mA Output Short Circuit Current, Rail-to-Rail Output
2	SGM8924A	1	1.5		No	3.0 ~ 5.5	8.9	5.1		6	5500	105	102	No	Yes	MSOP-10	High Precision, 300mA Output Short Circuit Current, Rail-to-Rail Output
1	SGM8925	0.6	2.5	1	No	1.6 ~ 5.5	0.11	0.04		105	6.4	93	85	No	Yes	SOT-23-5,SC70-5,SOIC-8,MSOP-8	High Precision, Very Low Quiescent Current, Low-side Current Sense
2	SGM8926	0.9	2.5	1	No	1.6 ~ 5.5	0.11	0.04		105	6.4	93	85	No	Yes	SOIC-8,MSOP-8	High Precision, Very Low Quiescent Current, Low-side Current Sense
1	SGM8927	0.6	2.5	1	Yes	1.6 ~ 5.5	0.11	0.04		105	6.4	93	85	No	Yes	SOT-23-6,SOIC-8,MSOP-8	High Precision, Very Low Quiescent Current, Low-side Current Sense
1	SGM8931	0.9	1.5	3	No	1.8 ~ 5.5	1.5	0.8		30	80	100	86	No	Yes	SOT-23-5,SC70-5,SOIC-8,MSOP-8	High Precision, Low Power, Low Noise, Rail-to-Rail Output
2	SGM8932	0.9	1.5	3	No	1.8 ~ 5.5	1.5	0.8		30	80	100	86	No	Yes	SOIC-8,MSOP-8	High Precision, Low Power, Low Noise, Rail-to-Rail Output
1	SGM8933	0.9	1.5	3	Yes	1.8 ~ 5.5	1.5	0.8		30	80	100	86	No	Yes	SOT-23-6,SOIC-8,MSOP-8	High Precision, Low Power, Low Noise, Rail-to-Rail Output
4	SGM8934	0.9	1.5	3	No	1.8 ~ 5.5	1.5	0.8		30	80	100	86	No	Yes	SOIC-14,TSSOP-14	High Precision, Low Power, Low Noise, Rail-to-Rail Output
1	SGM8951	0.8			No	1.8 ~ 5.5	0.11	0.045	3.5	115	26	92	92	Yes	Yes	SOT-23-5,SOIC-8	High Precision, Low Noise, Micro Power, RRIO
2	SGM8952	0.8			No	1.8 ~ 5.5	0.11	0.045	3.5	115	17	92	92	Yes	Yes	SOIC-8,MSOP-8	High Precision, Low Noise, Micro Power, RRIO
1	SGM8953-1	0.05	0.06	80	No	1.8 ~ 5.5	0.2	0.05	1	50	17	118	106	Yes	Yes	SOT-23-5,SOIC-8,UTDFN-1.6×1.6-6L	Ultra Low Power, CMOS, Zero-Drift, RRIO
2	SGM8953-2	0.05	0.06	80	No	1.8 ~ 5.5	0.2	0.05	1	50	17	118	106	Yes	Yes	SOIC-8,MSOP-8,TDFN-2×2-8L	Ultra Low Power, CMOS, Zero-Drift, RRIO
1	SGM8954-1	0.035	0.055	60	No	1.8 ~ 5.5	0.11	0.04	1	65	9	125	108	Yes	Yes	SOT-23-5,SOIC-8,UTDFN-1.6×1.6-6L	Ultra Low Power, CMOS, Zero-Drift, RRIO
2	SGM8954-2	0.035	0.055	60	No	1.8 ~ 5.5	0.11	0.04	1	65	9	125	108	Yes	Yes	SOIC-8,MSOP-8,TDFN-2×2-8L	Ultra Low Power, CMOS, Zero-Drift, RRIO
1	SGM8955	0.05	0.08	130	No	1.8 ~ 5.5	0.35	0.18	2		20	121	100	Yes	Yes	SOT-23-5,SC70-5,SOIC-8	High Precision, Low Noise, Micro Power, RRIO
2	SGM8956	0.05	0.08	130	No	1.8 ~ 5.5	0.35	0.18	2		20	121	100	Yes	Yes	SOIC-8,MSOP-8,TDFN-3×3-8L	High Precision, Low Noise, Micro Power, RRIO
1	SGM8957-1	0.025	0.08	130	No	1.8 ~ 5.5	0.35	0.18	2		20	121	100	Yes	Yes	SOT-23-5,SC70-5,SOIC-8	High Precision, Low Noise, Micro Power, RRIO
2	SGM8957-2	0.025	0.08	130	No	1.8 ~ 5.5	0.35	0.18	2		20	121	100	Yes	Yes	SOIC-8,TDFN-3×3-8L,MSOP-8	High Precision, Low Noise, Micro Power, RRIO
1	SGM8958-1	0.01	0.03	500	No	1.8 ~ 5.5	1.8	0.7	0.3	12	165	136	125	Yes	Yes	SOT-23-5,SC70-5,SOIC-8	High Precision, Low Noise, Zero-Drift
2	SGM8958-2	0.01	0.03	500	No	1.8 ~ 5.5	1.8	0.7	0.3	12	165	136	125	Yes	Yes	SOIC-8,TDFN-3×3-8L	High Precision, Low Noise, Zero-Drift
1	SGM8959-1	0.01	0.032	350	No	1.8 ~ 5.5	4	1	0.2	8	380	127	123	Yes	Yes	SOT-23-5,SC70-5,SOIC-8	High Precision, Low Noise, Zero-Drift
2	SGM8959-2	0.01	0.032	350	No	1.8 ~ 5.5	4	1	0.2	8	380	127	123	Yes	Yes	SOIC-8,TDFN-3×3-8L	High Precision, Low Noise, Zero-Drift
1	SGMOP07	0.17	0.5	1000	No	3.6 ~ 36	3	4	0.3	8.5	900	120	140	No	Yes	SOIC-8	3MHz, Low Noise, High Voltage Amp with Offset Nulling Function
1	SGMOP07C	0.15	0.3	1000	No	3.6 ~ 36	0.6	3	0.3	8.5	750	130	140	No	Yes	SOIC-8	600kHz, Low Noise, High Voltage Amp
1	SGMOP07E	0.15	0.3	1000	No	3.6 ~ 36	0.6	3	0.3	8.5	750	130	140	No	Yes	SOIC-8	600kHz, Low Noise, High Voltage Amp
1	SGMOP17C	0.12	0.02	100	No	4.5 ~ 36	2.8	1.3	0.4	20	450	150	135	No	Yes	SOT-23-5	2.8MHz, High Voltage, High Precision, Low Noise Rail-to-Rail Output, Single Amp
2	SGMOP17C-2	0.12	0.02	100	No	4.5 ~ 36	2.8	1.3	0.4	20	450	150	135	No	Yes	SOIC-8	2.8MHz, High Voltage, High Precision, Low Noise Rail-to-Rail Output, Dual Amps

Low Noise Operational Amplifier

Amplifiers per Package	Part Number	E_{NOISE} Typ @1kHz (nV/√Hz)	I_{NOISE} Typ @1kHz (pA/√Hz)	Slew Rate GBP Typ (MHz)	I_{OUT} Typ (V/μs)	I_{OUT} Min @25°C (mA)	V_{OS} Max @25°C (mV)	TC of V_{OS} Typ (μV/°C)	I_B Typ (pA)	V_{CC} (V)	I_Q /Amp Typ (mA)	A_{VO} Typ (dB)	CMRR Typ (dB)	Rail-to- Rail I/O	Package	Features
2	SGM5532	5	1	20	18	27	0.5	0.6	550000	5 ~ 36	4.25	140	140	Output	SOIC-8	High Voltage, Low Noise
1	SGM721	12.5		11	8.5	52	4	2.1	1	2.1 ~ 5.5	1.2	89	75	Yes	SOT-23-5,SOIC-8,SC70-5	11MHz, 8.5V/μs, Low Noise, RRIO
1	SGM721Q	12.5		11	6	48	5.5	5.5	10	2.1 ~ 5.5	1.2	86	75	Yes	SOT-23-5	Automotive, 11MHz, 6V/μs, Low Noise, RRIO
2	SGM722	12.5		11	8.5	52	4	2.1	1	2.1 ~ 5.5	1.1	89	75	Yes	SOIC-8,MSOP-8,TSSOP-8	11MHz, 8.5V/μs, Low Noise, RRIO
2	SGM722Q	12.5		11	6	48	5.5	5.5	10	2.1 ~ 5.5	1.2	86	75	Yes	SOIC-8/MSOP-8	Automotive, 11MHz, 6V/μs, Low Noise, RRIO
1	SGM723	12.5		11	8.5	52	4	2.1	1	2.1 ~ 5.5	1.2	89	75	Yes	SOT-23-6,SOIC-8	11MHz, 8.5V/μs, Low Noise, Single Amp with Shutdown, RRIO
4	SGM724	12.5		11	8.5	52	4	2.1	1	2.1 ~ 5.5	1.1	89	75	Yes	SOIC-14,TSSOP-14	11MHz, 8.5V/μs, Low Noise, RRIO
1	SGM8212-1	15	0.3	2.5	1.5	16	1.8	1.1	5	2.7 ~ 36	0.475	140	98	Yes	SOT-553-5,SOT-23-5,SOIC-8	Low Noise, High Voltage, RRIO
1	SGM8212-1Q	18	0.42	2.5	1.4	16	1.8	1.4	10	2.7 ~ 36	0.53	140	98	Yes	SOT-23-5	Automotive, Low Noise, High Voltage, RRIO
2	SGM8212-2	15	0.3	2.5	1.5	16	1.8	1.1	5	2.7 ~ 36	0.475	140	98	Yes	SOIC-8,TDFN-3×3-8L,MSOP-8	Low Noise, High Voltage, RRIO
2	SGM8212-2Q	18	0.42	2.5	1.4	16	1.8	1.4	10	2.7 ~ 36	0.53	140	98	Yes	SOIC-8	Automotive, Low Noise, High Voltage, RRIO
1	SGM8261-1	1.6	6	16	16	65 [†]	0.35	1	40000	3.6 ~ 36	3.8	140	135	Output	SOIC-8	16MHz, Ultra Low Noise, HiFi Audio Amp
2	SGM8261-2	1.6	6	16	16	65 [†]	0.35	1	40000	3.6 ~ 36	3.8	140	135	Output	TDFN-3×3-8BL,SOIC-8,MSOP-8	16MHz, Ultra Low Noise, HiFi Audio Amp
2	SGM8261-5	1.6	6	16	16	110 [†]	0.35	1	40000	3.6 ~ 36	4.1	150	136	Output	TDFN-3×3-10L,MSOP-10	16MHz, Ultra Low Noise, HiFi Audio Amp
2	SGM8262-2	3.5 ^{†††}	4 ^{†††}	50	33	200 [†]	0.5	0.5	40000	4.5 ~ 36	9	110	125	Output	SOIC-8,TDFN-3×3-8BL	50MHz, Ultra Low Noise, HiFi High Output Current Audio Amp
1	SGM8263-1	4.5	5	10	10	36	0.0085	0.01	60000	4 ~ 36	2.5	145	135	Output	SOT-23-5,SOIC-8	10MHz, Ultra Low Noise, Ultra Low Offset
2	SGM8263-2	4.5	5	10	10	36	0.0085	0.01	60000	4 ~ 36	2.5	145	135	Output	SOIC-8	10MHz, Ultra Low Noise, Ultra Low Offset
2	SGM8264-2	1.6	6	16	16	110 [†]	0.35	1	40000	3.6 ~ 36	4.1	140	120	Output	SOIC-8	16MHz, Ultra Low Noise, HiFi Audio Amp
2	SGM8270-2	15	0.3	2.5	8	28	2.8	0.8	10	3.3 ~ 36	0.5	120	85	Yes	SOIC-8,MSOP-8	Precision, High Voltage, RRIO
4	SGM8270-4	15	0.3	2.2	8	28	1.2	0.8	5	3.3 ~ 36	0.5	120	88	Yes	SOIC-14,TSSOP-14	Precision, High Voltage, RRIO
4	SGM8270SH-4	20	0.1	2.7	8	30	1.2	1.2	5	3.3 ~ 33	0.55	127	98	Yes	SOIC-14	Low Noise, Precision, High Voltage, RRIO
1	SGM8273-1	9	0.7	4	6	18	1	2	10	3.3 ~ 36	0.6	90	86	Yes	SOT-23-5,SOIC-8,MSOP-8	High Voltage, Precision, RRIO
2	SGM8273-2	9	0.7	4	6	18	1	2	10	3.3 ~ 36	0.6	90	86	Yes	SOIC-8	High Voltage, Precision, RRIO
4	SGM8273-4	9	0.7	4	6	18	1	2	10	3.3 ~ 36	0.6	90	86	Yes	SOIC-14	High Voltage, Precision, RRIO
1	SGM8275-1	8.5	1.5	0.6	3	21	0.15	0.3	1000	3.6 ~ 36	0.75	130	140	Output	SOT-23-5	600kHz, Low Noise, High Voltage Amp
2	SGM8275-2	8.5	1.5	0.6	3	21	0.15	0.3	1000	3.6 ~ 36	0.75	130	140	Output	SOIC-8	600kHz, Low Noise, High Voltage Amp
1	SGM8276-1	10	0.5	10	8	40	1.5	1	50	3.3 ~ 36	1.4	120	80	Yes	SOT-23-5	Low Noise, High Precision, High Voltage, RRIO
2	SGM8276-2	10	0.5	10	8	40	1.5	1	50	3.3 ~ 36	1.4	120	80	Yes	SOIC-8	Low Noise, High Precision, High Voltage, RRIO
4	SGM8276-4	10	0.5	10	8	40	1.5	1	50	3.3 ~ 36	1.4	120	80	Yes	SOIC-14	Low Noise, High Precision, High Voltage, RRIO

Notes: † Typical Values @ 25°C
††† Typical Values @ 100kHz

Low Noise Operational Amplifier

Amplifiers per Package	Part Number	E_{NOISE} Typ @1kHz (nV/√Hz)	I_{NOISE} Typ @1kHz (pA/√Hz)	Slew Rate GBP Typ (MHz)	Typ (V/μs)	I_{OUT} Min @25°C (mA)	V_{OS} Max @25°C (mV)	TC of V_{OS} Typ (μV/°C)	I_B Typ (pA)	V_{CC} (V)	I_Q /Amp Typ (mA)	A_{VO} Typ (dB)	CMRR Typ (dB)	Rail-to- Rail I/O	Package	Features
2	SGM8278-2	15	0.3	3.3	2	55	2	2	10	3 ~ 36	1.2	120	100	Yes	SOIC-8,MSOP-8,TDFN-2×2-8AL, TDFN-3×3-8BL,WLCSP-1.57×1.57-8B	Low Noise, High Voltage, RRIO
1	SGM8295-1	4.5	2	9	8	28	0.25	0.4	1000	3.6 ~ 36	1.5	130	140	Output	SOIC-8,SOT-23-5	9MHz, Low Noise, High Voltage Amp
2	SGM8295-2	4.5	2	9	8	28	0.25	0.4	1000	3.6 ~ 36	1.5	130	140	Output	SOIC-8,MSOP-8	9MHz, Low Noise, High Voltage Amp
4	SGM8295-4	4.5	2	9	8	28	0.25	0.4	1000	3.6 ~ 36	1.5	130	140	Output	SOIC-14	9MHz, Low Noise, High Voltage Amp
2	SGM8608-2	30	0.031	11	6.6	50	1.7	0.9	10	2.1 ~ 5.5	1.1	120	82	Yes	SOIC-8,MSOP-8,TSSOP-8,UTDFN-2×2-8BL	11MHz, RRIO
2	SGM8610-2	30		8.5	4.8	21	1.7	1.2	5	2.5 ~ 5.5	0.9	116	71	Yes	SOIC-8,UTDFN-2×2-8BL	8.5MHz, Low Noise, RRIO
1	SGM8621	17.5		3	1.7	38	3	2.7	1	2 ~ 5.5	0.27	90	71	Yes	SOT-23-5,SOIC-8,SC70-5	3MHz, 1.7V/μs, Low Noise, RRIO
2	SGM8622	17.5		3	1.7	38	3	2.7	1	2 ~ 5.5	0.21	90	71	Yes	SOIC-8,MSOP-8	3MHz, 1.7V/μs, Low Noise, RRIO
1	SGM8623	17.5		3	1.7	38	3	2.7	1	2 ~ 5.5	0.27	90	71	Yes	SOT-23-6,SOIC-8	3MHz, 1.7V/μs, Low Noise, Single Amp with Shutdown, RRIO
4	SGM8624	17.5		3	1.7	38	3	2.7	1	2 ~ 5.5	0.21	90	71	Yes	SOIC-14,TSSOP-14	3MHz, 1.7V/μs, Low Noise, RRIO
1	SGM8631	13		6	3.7	40	3.5	2.4	1	2 ~ 5.5	0.57	86	76	Yes	SOT-23-5,SOIC-8,SC70-5	6MHz, 3.7V/μs, Low Noise, RRIO
2	SGM8632	13		6	3.7	40	3.5	2.4	1	2 ~ 5.5	0.48	86	76	Yes	MSOP-8,SOIC-8	6MHz, 3.7V/μs, Low Noise, RRIO
1	SGM8633	13		6	3.7	40	3.5	2.4	1	2 ~ 5.5	0.57	86	76	Yes	SOT-23-6,SOIC-8	6MHz, 3.7V/μs, Low Noise, Single Amp with Shutdown, RRIO
4	SGM8634	12	0.003	6	3.7	49	3.5	2.4	1	2.5 ~ 5.5	0.47	97	83	Yes	SOIC-14,TSSOP-14	6MHz, 3.7V/μs, Low Noise, RRIO
1	SGM8651	8.7 ^{††}		50	66	100	8	4.5	6	2.5 ~ 5.5	2.3	80	80	Output	SOT-23-5,SOIC-8	50MHz, 66V/μs, Low Noise, Rail-to-Rail Output
2	SGM8652	8.7 ^{††}		50	66	100	8	4.5	6	2.5 ~ 5.5	2.3	80	80	Output	SOIC-8,MSOP-8	50MHz, 66V/μs, Low Noise, Rail-to-Rail Output
1	SGM8653	8.7 ^{††}		50	66	100	8	4.5	6	2.5 ~ 5.5	2.3	80	80	Output	SOT-23-6,SOIC-8	50MHz, 66V/μs, Low Noise, Single Amp with Shutdown, Rail-to-Rail Output
4	SGM8654	8.7 ^{††}		50	66	100	8	4.5	6	2.5 ~ 5.5	2.3	80	80	Output	SOIC-14,TSSOP-14	50MHz, 66V/μs, Low Noise, Rail-to-Rail Output
2	SGM8655	8.7 ^{††}		50	66	100	8	4.5	6	2.5 ~ 5.5	2.3	80	80	Output	MSOP-10	50MHz, 66V/μs, Low Noise, Dual Amps with Shutdown, Rail-to-Rail Output
1	SGM8967-1	18		27	30	48	0.24	1.5	3	2.1 ~ 5.5	2.7	128	105	Yes	SOT-23-5,SOIC-8	27MHz, High Precision, RRIO
2	SGM8967-2	18		27	30	48	0.24	1.5	3	2.1 ~ 5.5	2.7	128	105	Yes	SOIC-8,MSOP-8	27MHz, High Precision, RRIO
1	SGM8967-3	18		27	30	48	0.24	1.5	3	2.1 ~ 5.5	2.7	128	105	Yes	SOT-23-6	27MHz, High Precision, Single Amp with Shutdown, RRIO
4	SGM8967-4	18		27	30	48	0.24	1.5	3	2.1 ~ 5.5	2.7	128	105	Yes	SOIC-14,TSSOP-14	27MHz, High Precision, RRIO
1	SGM8968-1	18		10	20	31	0.24	1	6	1.8 ~ 5.5	1.6	128	95	Yes	SOT-23-5,SOIC-8	10MHz, High Precision, RRIO
2	SGM8968-2	18		10	20	31	0.24	1	6	1.8 ~ 5.5	1.6	128	95	Yes	SOIC-8,MSOP-8	10MHz, High Precision, RRIO
4	SGM8968-4	18		10	20	31	0.24	1	6	1.8 ~ 5.5	1.6	128	95	Yes	SOIC-14,TSSOP-14	10MHz, High Precision, RRIO
1	SGM8969-1	20		50	20	30	0.24	1	6	1.8 ~ 5.5	1.1	127	102	Yes	SOT-23-5	50MHz, High Precision, RRIO
2	SGM8969-2	20		50	20	30	0.24	1	6	1.8 ~ 5.5	1.1	127	102	Yes	SOIC-8,TDFN-3×3-8L	50MHz, High Precision, RRIO

Note: †† Typical Values @ 1MHz

Application-Specific Operational Amplifier

Amplifiers per Package	Part Number	Transient Output Peak Current (mA)	Settling Time to 0.1% (μ s)	GBP Typ (MHz)	Slew Rate Typ (V/ μ s)	I _{OUT} Typ (mA)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μ V/°C)	I _B Typ (pA)	V _{CC} (V)	I _Q /Amp Typ (μ A)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to- -Rail I/O	Package	Features
4	LM2902			1.1	0.35	18	5.8		10	3 ~ 32	215	111	118	Output	SOIC-14	Low Power, Quad Amps
2	LM2904			1.1	0.35	18	5.8		10	3 ~ 32	220	111	118	Output	SOIC-8,MSOP-8,TSSOP-8	Low Power, Dual Amps
1	LM321			1.1	0.35	18	5.8		10	3 ~ 32	240	111	118	Output	SOT-23-5	Low Power, Single Amp
4	LM324			1.1	0.35	18	5.8		10	3 ~ 32	215	111	118	Output	SOIC-14	Low Power, Quad Amps
2	LM358			1.1	0.35	18	5.8		10	3 ~ 32	220	111	118	Output	SOIC-8,MSOP-8	Low Power, Dual Amps
2	SGM2904			2	0.6	40	4	2	20000	3.3 ~ 26	1000	100	80	No	SOIC-8,MSOP-8	High Voltage, Low Bias Current
1	SGM4822			2.6 @-3dB	4.8	100				3.3 ~ 5.5	660	20		Output	SOT-23-8	Tiny, Low-Cost, Single Input, Fixed-Gain Microphone Amplifier with Integrated Bias
1	SGM4823			2.6 @-3dB	4.8	100				3.3 ~ 5.5	660	20		Output	MSOP-10	Tiny, Low-Cost, Dual Input, Fixed-Gain Microphone Amplifier with Integrated Bias
1	SGM4825			2.6 @-3dB	4.8	100				2.7 ~ 5.5	660	20		Output	SOT-23-6	Tiny, Low-Cost, Single Input, Fixed-Gain Microphone Amplifier with Integrated Bias
1	SGM4826			2.6 @-3dB	4.8	100				2.7 ~ 5.5	660	20		Output	SOT-23-8	Tiny, Low-Cost, Dual Input, Fixed-Gain Microphone Amplifier with Integrated Bias
1	SGM620				1.2	24	0.15	0.2	15000	4.6 ~ 36	1300		105	Output	SOIC-8	High Voltage, Low Noise, Rail-to-Rail Output Instrumentation Amp
1	SGM620A				1.2	24	0.08	0.2	15000	4.6 ~ 36	1300		120	Output	SOIC-8	High Voltage, Low Noise, Rail-to-Rail Output Instrumentation Amp
1	SGM621				1.2	24	0.15	0.2	15000	4.6 ~ 36	1300		105	Output	SOIC-8,MSOP-8	High Voltage, Low Noise, Rail-to-Rail Output Instrumentation Amp
1	SGM621A				1.2	24	0.08	0.2	15000	4.6 ~ 36	1300		120	Output	SOIC-8,MSOP-8,TDFN-3x3-8L	High Voltage, Low Noise, Rail-to-Rail Output Instrumentation Amp
2	SGM8139			0.011		50	1.6			1.4 ~ 5.5	6.5	92	78	Yes	SOIC-16,TQFN-2.5x2.5-16L	Low Power, Low Voltage PIR and Vibration Sensor AFE
2	SGM8140			0.005	0.0016	24	2.5	2	1	1.4 ~ 5.5	1.1	93	83	Yes	TQFN-4x4-16L	Low Power, Low Voltage PIR and Vibration Sensor AFE
1	SGM8416-1	800	0.16	25	65	300	10	3.6	1000	4.5 ~ 26.5	2600	120	72	Yes	TDFN-3x3-8L	0.8A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Single V _{COM} Buffer
2	SGM8416-2	800	0.16	25	65	300	10	3.6	1000	4.5 ~ 26.5	2600	120	72	Yes	MSOP-8 (Exposed Pad)	0.8A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Dual V _{COM} Buffer
4	SGM8416-4	800	0.16	25	65	300	10	3.6	1000	4.5 ~ 26.5	2600	120	72	Yes	TSSOP-14 (Exposed Pad)	0.8A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Quad V _{COM} Buffer
4	SGM8416A-4	800	0.17	28	68	300	10	3.6	300	4.5 ~ 24	2400	120	72	Yes	TSSOP-14 (Exposed Pad)	0.8A Peak Output Current, 68V/ μ s, 24V _{CC} , Quad V _{COM} Buffer
1	SGM8417-1	1500	0.14	28	65	400	10	3.6	1000	4.5 ~ 26.5	3300	120	72	Yes	TDFN-3x3-8L	1.5A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Single V _{COM} Buffer
2	SGM8417-2	1500	0.14	28	65	400	10	3.6	1000	4.5 ~ 26.5	3300	120	72	Yes	MSOP-8 (Exposed Pad)	1.5A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Dual V _{COM} Buffer
4	SGM8417-4	1500	0.14	28	65	400	10	3.6	1000	4.5 ~ 26.5	3300	120	72	Yes	TSSOP-14 (Exposed Pad)	1.5A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Quad V _{COM} Buffer
1	SGM8417A-1	1500	0.134	26	74	400	10	3.6	300	4.5 ~ 24	3300	120	72	Yes	TDFN-3x3-8L	1.5A Peak Output Current, 74V/ μ s, 24V _{CC} , Single V _{COM} Buffer
1	SGM8418-1	3000	0.14	28	65	400	10	3.6	1000	4.5 ~ 26.5	4800	120	72	Yes	TDFN-3x3-8L	3A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Single V _{COM} Buffer
2	SGM8418-2	3000	0.14	28	65	400	10	3.6	1000	4.5 ~ 26.5	4800	120	72	Yes	MSOP-8 (Exposed Pad)	3A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Dual V _{COM} Buffer
4	SGM8418-4	3000	0.14	28	65	400	10	3.6	1000	4.5 ~ 26.5	4800	120	72	Yes	TSSOP-14 (Exposed Pad)	3A Peak Output Current, 65V/ μ s, 26.5V _{CC} , Quad V _{COM} Buffer
2	SGM8422			2.4	2	80	6		10	4.5 ~ 30	720	115	81	Yes	SOIC-8,MSOP-8	Low Power, 30V _{CC} , Dual V _{COM} Buffer for Small Panel
4	SGM8424			2.4	2	80	6		10	4.5 ~ 30	720	115	81	Yes	SOIC-14,TSSOP-14	Low Power, 30V _{CC} , Quad V _{COM} Buffer for Small Panel
1	SGM8425	336	0.34	9	14	80	6.5	4.9		4.5 ~ 30	1600	92	71	Yes	SOT-23-5,SOIC-8,MSOP-8	336mA Peak Output Current, 14V/ μ s, 30V _{CC} , Single V _{COM} Buffer
2	SGM8426	336	0.34	9	14	80	6.5	4.9		4.5 ~ 30	1600	92	71	Yes	SOIC-8,MSOP-8	336mA Peak Output Current, 14V/ μ s, 30V _{CC} , Dual V _{COM} Buffer

Application-Specific Operational Amplifier

Amplifiers per Package	Part Number	Transient Output Peak Current (mA)	Settling Time to 0.1% (μ s)	GBP Typ (MHz)	Slew Rate Typ (V/ μ s)	I _{OUT} Typ (mA)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μ V/°C)	I _B Typ (pA)	V _{CC} (V)	I _Q /Amp Typ (μ A)	A _{VO} Typ (dB)	CMRR Typ (dB)	Rail-to- -Rail I/O	Package	Features
4	SGM8428	336	0.34	9	14	80	6.5	4.9		4.5 ~ 30	1600	92	71	Yes	SOIC-14,TSSOP-14	336mA Peak Output Current, 14V/ μ s, 30V _{CC} , Quad V _{COM} Buffer
4	SGM8429C-4			1.1	0.35	18	6		10	3 ~ 32	215	111	100	Output	TQFN-3×3-16L	Low Power, Quad Amps
1	SGM8431-1		4	4.5	3.5	300	6	4	10	4.5 ~ 36	10000	106	86	Yes	TO-252-5	High Output Current, Rail-to-Rail I/O
1	SGM8431-1Q		4	4.5	3.5	300	6	4	10	4.5 ~ 36	10000	106	86	Yes	TO-252-5	Automotive, High Output Current, Rail-to-Rail I/O
2	SGM8437-2			75	800	500	12	100	1.8×10 ⁷	8 ~ 30	18000		90	Output	TQFN-4×5-24AL	Current Feedback, Wide-Band High-Current Output
2	SGM8480-2		0.7	7.5	6	85	0.025	0.2	500	4.5 ~ 18	2100	145	140	No	TSSOP-14	15V Single-Supply, Dual Amps with $\pm$ 10V Output Range
2	SGM8600		0.21	11	8.5	63	4	8.7	1	2.1 ~ 5.5	1100	92	82	Yes	TDFN-2×2-8L,SOIC-8	Tiny Package, Positive Offset, Low Noise
1	SGM8601		0.21	11	8.5	63	4	8.7	1	2.1 ~ 5.5	1100	92	82	Yes	TDFN-2×2-8L	Tiny Package, Low Noise
2	SGM8602		0.2	12	9	65	5.1	4.7	1	2.1 ~ 5.5	1100	92	75	Yes	SOT-23-8,TDFN-2×3-8L	Tiny Package, Low Noise
1	SGM8603		0.21	11	8.5	64	4.9	2.7	1	2.1 ~ 5.5	1100	91	83	Yes	TDFN-2×2-6L	Tiny Package, Low Noise
1	SGM8604-1	232		15	7	240	0.01	0.017	200	2.7 ~ 5.5	1200	145	120	Output	UTDFN-1.45×1-6L	15MHz, 7V/ μ s, High-Output-Drive, High Precision, Low Noise, Single Amp
2	SGM8604-2	232		15	7	240	0.01	0.017	200	2.7 ~ 5.5	1200	145	120	Output	TDFN-2×3-8AL	15MHz, 7V/ μ s, High-Output-Drive, High Precision, Low Noise, Dual Amps
1	SGM8604-3	232		15	7	240	0.01	0.017	200	2.7 ~ 5.5	1200	145	120	Output	UTDFN-1.45×1-6L	15MHz, 7V/ μ s, High-Output-Drive, High Precision, Low Noise, Single Amp with Shutdown
2	SGM8604-5	232		15	7	240	0.01	0.017	200	2.7 ~ 5.5	1200	145	120	Output	TDFN-3×3-10L	15MHz, 7V/ μ s, High-Output-Drive, High Precision, Low Noise, Dual Amps with Shutdown
1	SGM8605-1		0.21	12.5	8.5	78	4.5		2	2.1 ~ 5.5	1200	88	79	Yes	UTDFN-1.45×1-6L	Ultra Tiny Package, Low Noise
2	SGM8607-2		1	1.2	0.6	28	0.03	0.12	70	1.8 ~ 5.5	70	120	114	Yes	WLCSP-1.2×1.2-9B-A	1.2MHz, High Precision, Rail-to-Rail I/O, Dual Amps
1	SGM8941		2	1.5	0.8		0.9	3	3	1.8 ~ 5.5	120	90	90	Yes	SOT-23-5,SOIC-8	Crossover Distortion Free, 0.9mV V _{OS} , Low Bias Current
2	SGM8942		2	1.5	0.8		0.9	3	3	1.8 ~ 5.5	120	90	90	Yes	SOIC-8,MSOP-8	Crossover Distortion Free, 0.9mV V _{OS} , Low Bias Current

Current Sense Amplifier

Amplifiers per Package	Part Number	V _{CC} (V)	I _Q Typ (μ A)	Input Common Mode Voltage Range (V)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μ V/°C)	Gain (V/V)	Gain Error Max (%)	CMRR Typ (dB)	-3dB BW Typ (MHz)	Slew Rate Typ (V/ μ s)	Package	Features
1	SGM8188A0	1.6 ~ 28	0.85	1.6 ~ 28	0.06		25	0.4	120	0.28		WLCSP-1×1-4B-A	Tiny Package, Nano-Power, Precision Current-Sense Amplifier
1	SGM8188A1	1.6 ~ 28	0.85	1.6 ~ 28	0.06		50	0.4	120	0.22		WLCSP-1×1-4B-A	Tiny Package, Nano-Power, Precision Current-Sense Amplifier
1	SGM8188A2	1.6 ~ 28	0.85	1.6 ~ 28	0.06		100	0.4	120	0.16		WLCSP-1×1-4B-A	Tiny Package, Nano-Power, Precision Current-Sense Amplifier
1	SGM8188A3	1.6 ~ 28	0.85	1.6 ~ 28	0.06		200	0.4	120	0.125		WLCSP-1×1-4B-A	Tiny Package, Nano-Power, Precision Current-Sense Amplifier
1	SGM8193A0	1.6 ~ 28	0.85	1.6 ~ 28	0.06		25	0.4	124	0.28		SOT-23-5,WLCSP-1×1-4B	Tiny Packages, Nano-Power, Precision Current-Sense Amplifier

Current Sense Amplifier

Amplifiers per Package	Part Number	V _{CC} (V)	I _Q Typ (μA)	Input Common Mode Voltage Range (V)	V _{OS} Max @25°C (mV)	TC of V _{OS} Typ (μV/°C)	Gain (V/V)	Gain Error Max (%)	CMRR Typ (dB)	-3dB BW Typ (MHz)	Slew Rate Typ (V/μs)	Package	Features
1	SGM8193A1	1.6 ~ 28	0.85	1.6 ~ 28	0.06		50	0.4	124	0.22		SOT-23-5,WLCSP-1×1-4B	Tiny Packages, Nano-Power, Precision Current-Sense Amplifier
1	SGM8193A2	1.6 ~ 28	0.85	1.6 ~ 28	0.06		100	0.4	124	0.16		SOT-23-5,WLCSP-1×1-4B	Tiny Packages, Nano-Power, Precision Current-Sense Amplifier
1	SGM8193A3	1.6 ~ 28	0.85	1.6 ~ 28	0.06		200	0.4	124	0.125		SOT-23-5,WLCSP-1×1-4B	Tiny Packages, Nano-Power, Precision Current-Sense Amplifier
1	SGM8194A3	2.1 ~ 5.5	60	-0.1 ~ 40	0.05	0.15	100	0.45	150	0.03	0.2	SC70-6,UTQFN-1.8×1.4-10L	Bidirectional, Low Power, Zero-Drift, Precision Current-Sense Amplifier
1	SGM8194A4	2.1 ~ 5.5	60	-0.1 ~ 40	0.05	0.15	200	0.45	150	0.022	0.2	SC70-6,UTQFN-1.8×1.4-10L	Bidirectional, Low Power, Zero-Drift, Precision Current-Sense Amplifier
1	SGM8196	2.7 ~ 5.5	320	2.9 ~ 70	0.015		20/25/50/100		145	0.95	1	SOIC-8,TSSOP-8	High Voltage, High-Side Current-Sense Amplifier
1	SGM8197A0	2.7 ~ 28	650	-24 ~ 105	4		10	1.2	102	2	1.7	SOIC-8,MSOP-8	High-side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8197A0Q	2.7 ~ 28	550	-24 ~ 105	4		10	1.4	102	1.6	1.7	SOIC-8,MSOP-8	Automotive, High-Side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8197A1	2.7 ~ 28	650	-24 ~ 105	4		20	1.2	102	1.2	1.7	SOIC-8,MSOP-8	High-side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8197A1Q	2.7 ~ 28	550	-24 ~ 105	4		20	1.4	102	1.2	1.7	SOIC-8,MSOP-8	Automotive, High-Side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8197A2	2.7 ~ 28	650	-24 ~ 105	4		50	1.2	102	0.8	1.7	SOIC-8,MSOP-8	High-side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8197A2Q	2.7 ~ 28	550	-24 ~ 105	4		50	1.4	102	0.8	1.7	SOIC-8,MSOP-8	Automotive, High-Side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8197A3	2.7 ~ 28	650	-24 ~ 105	4		100	1.2	102	0.5	1.7	SOIC-8,MSOP-8	High-side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8197A3Q	2.7 ~ 28	550	-24 ~ 105	4		100	1.4	102	0.5	1.7	SOIC-8,MSOP-8	Automotive, High-Side Current-Sense Amplifier with Open-Drain Comparator and Reference
1	SGM8198	2.7 ~ 36	65	2.7 ~ 36	0.55	1	1 ~ 100		140	0.48 [†]		SOT-23-5	High Voltage, High-side Measurement Current Shunt Monitor
1	SGM8199A0	2.7 ~ 26	85	-0.1 ~ 26	0.6	1	20	0.7	97	0.074	0.42	SC70-6	Voltage Output, High- or Low-side Measurement, Bidirectional Current Shunt Monitor
1	SGM8199A1	2.7 ~ 26	85	-0.1 ~ 26	0.35	1	50	0.4	104	0.08	0.35	SC70-6	Voltage Output, High- or Low-side Measurement, Bidirectional Current Shunt Monitor
1	SGM8199A2	2.7 ~ 26	85	-0.1 ~ 26	0.25	1	100	0.4	108	0.068	0.3	SC70-6	Voltage Output, High- or Low-side Measurement, Bidirectional Current Shunt Monitor
1	SGM8199L1	2.7 ~ 26	85	-0.1 ~ 26	0.35	1	50	0.4	104	0.074	0.35	SC70-6,UTQFN-1.8×1.4-10L	Voltage Output, High- or Low-side Measurement, Bidirectional Current Shunt Monitor
1	SGM8199L2	2.7 ~ 26	85	-0.1 ~ 26	0.33	1	100	0.4	110	0.068	0.3	SC70-6,UTQFN-1.8×1.4-10L	Voltage Output, High- or Low-side Measurement, Bidirectional Current Shunt Monitor
1	SGM8477-1B	1.8 ~ 5.5	380	-V _S ~ V _S	0.01	0.02	50	0.2	108	0.15	0.4	SC70-6,UTQFN-1.8×1.4-10L	1.8V to 5.5V, Low Noise, Zero-Drift, Single Amp
1	SGM8477-1G	1.8 ~ 5.5	380	-V _S ~ V _S	0.01	0.02	300	0.3	108	0.032	0.15	SC70-6,UTQFN-1.8×1.4-10L	1.8V to 5.5V, Low Noise, Zero-Drift, Single Amp
1	SGM8478-1C	4.5 ~ 36	1550	-V _S -0.1 ~ V _S +1	0.016	0.14	50	0.1	106	0.23	2.1	SOIC-8,TDFN-3×3-8L	High Voltage, High Precision, Low Noise, Over the Rail Difference Amp
1	SGM8606	1.8 ~ 5.5	20	-V _S -0.1 ~ V _S +0.1	0.05	0.08			100	0.35	0.18	TDFN-3×3-10L	Current-Sense AFE

Note: † Typical Values @ G = 10

Nano Power Comparator

Comparators per Package	Part Number	I _q /Comp Typ (nA)	Latch Enable	V _{CC} (V)	V _{OS} Max @25°C (mV)	t _{PD} , H to L @V _{CC} = 5V (μs)	t _{PD} , L to H @V _{CC} = 5V (μs)	Logic Output	Reference Output (V)	Rise Time @V _{CC} = 5V (ns)	Fall Time @V _{CC} = 5V (ns)	Package	Features
1	SGM8701	350	No	1.4 ~ 5.5	3	6	33	Push-Pull	NA	85	60	SOT-23-5,SC70-5	Ultra Low Power, Push-Pull, Small Package
1	SGM8702	350	No	1.4 ~ 5.5	3	6	33	Open-Drain (PFET)	NA	85	NA	SOT-23-5,SC70-5	Ultra Low Power, PFET Open-Drain, Small Package
1	SGM8703	350	Yes	1.4 ~ 5.5	3	6	33	Push-Pull	NA	85	60	SOT-23-6	Latch Enable, Ultra Low Power, Push-Pull, Small Package
1	SGM8704	350	Yes	1.4 ~ 5.5	3	6	33	Push-Pull & Invert	NA	85	60	SOIC-8,MSOP-8	Latch Enable, Ultra Low Power, Push-Pull and Inverter
2	SGM8705	350	No	1.4 ~ 5.5	3	6	33	Push-Pull	NA	85	60	SOIC-8,MSOP-8	Ultra Low Power, Push-Pull
1	SGM8706	2300	Yes	1.8 ~ 5.5	3	5.6	30	Push-Pull	1.2	40	30	SOIC-8,SOT-23-8,SOT-23-6	Internal Reference, Latch Enable, Ultra Low Power, Push-Pull
1	SGM8707	350	No	1.4 ~ 5.5	3	6	33	Push-Pull	NA	85	60	SOT-23-5,SC70-5	Ultra Low Power, Push-Pull, Small Package
1	SGM8708	2300	Yes	1.8 ~ 5.5	3	5.6	30	Push-Pull & Invert	1.2	40	30	SOT-23-8,SOIC-8	Internal Reference, Latch Enable, Ultra Low Power, Push-Pull and Inverter
1	SGM8709	366	No	1.4 ~ 5.5	3	5		Open-Drain (NFET)	NA	NA	36	SOT-23-5,SC70-5	Ultra Low Power, NFET Open-Drain, Small Package
1	SGM8710	2300	Yes	1.8 ~ 5.5	3	5.6		Open-Drain (NFET)	1.2	NA	30	SOT-23-8,SOT-23-6	Internal Reference, Latch Enable, Ultra Low Power, NFET Open-Drain
1	SGM8711	2300	No	1.8 ~ 5.5	3	5.6	30	Push-Pull	1.2	40	30	UTDFN-1.6×1.6-6L	Tiny Package, Internal Reference, Ultra Low Power, Push-Pull
2	SGM8712	350	No	1.4 ~ 5.5	3	6	33	Push-Pull	NA	85	60	MSOP-8	Ultra Low Power, Push-Pull
1	SGM8713A-1	300	No	1.6 ~ 5.5	10			Push-Pull		7	15	XTDFN-0.8×0.8-4L	Small Size, Nano Power, Push-Pull
1	SGM8713B-1	300	No	1.6 ~ 5.5	10	3	5	Open-Drain (NFET)			15	XTDFN-0.8×0.8-4L	Small Size, Nano Power, Open-Drain
1	SGM8714A-1	300	No	1.6 ~ 5.5	10			Push-Pull		6	6	XTDFN-1×1-6L	Small Size, Nano Power, Push-Pull
1	SGM8714B-1	300	No	1.6 ~ 5.5	10	4	6	Open-Drain (NFET)			6	XTDFN-1×1-6L	Small Size, Nano Power, Open-Drain
1	SGM8778A-1	1200	No	1.65 ~ 40	2.2	2	2.5	Open-Drain				SOT-23-5	High Voltage, Low Power, High Precision, Open-Drain
1	SGM8778B-1	1200	No	1.65 ~ 40	2.2	2	2.5	Open-Drain				SOT-23-5	High Voltage, Low Power, High Precision, Open-Drain
1	SGM8778C-1	1200	No	1.65 ~ 40	2.2	2	2.5	Open-Drain				SOT-23-5	High Voltage, Low Power, High Precision, Open-Drain
1	SGM8778D-1	1200	No	1.65 ~ 40	2.2	2	2.5	Open-Drain				SOT-23-5	High Voltage, Low Power, High Precision, Open-Drain
1	SGM8778E-1	1200	No	1.65 ~ 40	2.2	2	2.5	Push-Pull				SOT-23-5	High Voltage, Low Power, High Precision, Push-Pull
2	SGM8779A-2	1200	No	1.65 ~ 40	2.2	2	2.5	Open-Drain				SOIC-8,MSOP-8	High Voltage, Low Power, High Precision, Open-Drain
2	SGM8779B-2	1200	No	1.65 ~ 40	2.2	2	2.5	Push-Pull				SOIC-8,MSOP-8	High Voltage, Low Power, High Precision, Push-Pull

High Speed Comparator

Comparators per Package	Part Number	t _{PD} , H to L @V _{CC} = 5V (ns)	t _{PD} , L to H @V _{CC} = 5V (ns)	Rise Time @V _{CC} = 5V (ns)	Fall Time @V _{CC} = 5V (ns)	V _{OS} Max @25°C (mV)	V _{CC} (V)	Input Common Mode Voltage Range (V)	I _Q /Comp Typ (μA)	Logic Output	Rail-to-Rail Output	Package	Features
1	SGM8740	20 [†]	25 [†]	8 [†]	5 [†]	5	2.7 ~ 5.5	-0.1 ~ V _S +0.1	155	Push-Pull	Yes	SOT-23-5,SC70-5	High Speed, Small Package, Single, Rail-to-Rail Input
1	SGM8741	20 [†]	25 [†]	8 [†]	5 [†]	5	2.7 ~ 5.5	-0.1 ~ V _S +0.1	155	Push-Pull	Yes	SOT-23-5,SC70-5	High Speed, Small Package, Single, Rail-to-Rail Input
2	SGM8742	20 [†]	25 [†]	8 [†]	5 [†]	5	2.7 ~ 5.5	-0.1 ~ V _S +0.1	155	Push-Pull	Yes	SOIC-8,MSOP-8	High Speed, Small Package, Dual, Rail-to-Rail Input
1	SGM8743	6 [†]	6 [†]	8 [†]	6 [†]	4.9	2.7 ~ 5.5	-0.1 ~ V _S +0.1	1300	Push-Pull	Yes	SOT-23-5,SC70-5	Ultra High Speed, Small Package, Single, Rail-to-Rail Input
1	SGM8744	6 [†]	6 [†]	8 [†]	6 [†]	4.9	2.7 ~ 5.5	-0.1 ~ V _S +0.1	1300	Push-Pull	Yes	SOT-23-5,SC70-5	Ultra High Speed, Small Package, Single, Rail-to-Rail Input
2	SGM8745	6 [†]	6 [†]	8 [†]	6 [†]	4.9	2.7 ~ 5.5	-0.1 ~ V _S +0.1	1300	Push-Pull	Yes	SOIC-8,MSOP-8	Ultra High Speed, Small Package, Dual, Rail-to-Rail Input
2	SGM8745X	6 [†]	6 [†]	8.5 [†]	9 [†]	3	2.7 ~ 5.5	-0.1 ~ V _S +0.1	1550	Push-Pull	Yes	SOIC-8,MSOP-8	Ultra High Speed, Small Package, Dual, Rail-to-Rail Input
1	SGM8746	95 [†]	120 [†]	8 [†]	6 [†]	4.9	2.7 ~ 5.5	-0.1 ~ V _S +0.1	22	Push-Pull	Yes	SOT-23-5,SC70-5	Low Power, Small Package, Single, Rail-to-Rail Input
1	SGM8747	95 [†]	120 [†]	8 [†]	6 [†]	4.9	2.7 ~ 5.5	-0.1 ~ V _S +0.1	22	Push-Pull	Yes	SOT-23-5,SC70-5	Low Power, Small Package, Single, Rail-to-Rail Input
2	SGM8748	95 [†]	120 [†]	8 [†]	6 [†]	4.9	2.7 ~ 5.5	-0.1 ~ V _S +0.1	22	Push-Pull	Yes	SOIC-8,MSOP-8	Low Power, Small Package, Dual, Rail-to-Rail Input
1	SGM8749	97 [†]	NA	NA	6	4.5	2.7 ~ 5.5	-0.1 ~ V _S +0.1	22	Open-Drain	No	SOT-23-5,SC70-5	Low Power, Small Package, Single, Open-Drain Output
2	SGM8750	110	NA	NA	8	5.5	2.7 ~ 5.5	-0.1 ~ V _S +0.1	25	Open-Drain	No	SOIC-8,MSOP-8	Low Power, Small Package, Dual, Open-Drain Output
1	SGM8751	30 [†]	22 [†]	11 [†]	8 [†]	5	2.7 ~ 5.5	-0.1 ~ V _S -1.2	150	Push-Pull	Yes	SOT-23-5	Low Power, Small Package, Single, Rail-to-Rail Output
1	SGM8752-1		6.5	1.2	0.9	6.5	2.7 ~ 5.5	-V _S -0.2 ~ V _S +0.2	1800	Push-Pull	Yes	SOT-23-5	High Speed, Single, Push-Pull Output
2	SGM8752-2		6.5	1.2	0.9	6.5	2.7 ~ 5.5	-V _S -0.2 ~ V _S +0.2	1800	Push-Pull	Yes	SOT-23-8,SOIC-8	High Speed, Dual, Push-Pull Output
1	SGM8752-3		6.5	1.2	0.9	6.5	2.7 ~ 5.5	-V _S -0.2 ~ V _S +0.2	1800	Push-Pull	Yes	SOT-23-6	High Speed, Single Comparator with Shutdown, Push-Pull Output
2	SGM8754-2	250	320			3.4	2.7 ~ 5.5	-0.1 ~ V _S +0.1	40	Open-Drain	No	SOIC-8,MSOP-8	General-Purpose, Low Voltage, Dual, Open-Drain Output
4	SGM8754-4	250	320			3.4	2.7 ~ 5.5	-0.1 ~ V _S +0.1	40	Open-Drain	No	SOIC-14,UTQFN-2x2-14BL	General-Purpose, Low Voltage, Quad, Open-Drain Output
2	SGM8770	45	NA	NA	15	2.4	2.8 ~ 36	-V _S ~ V _S -1.5	155	Open-Drain	No	SOIC-8,TDFN-3x3-8L,MSOP-8	High Voltage, High Precision, Dual, Open-Drain Output
1	SGM8771	50	NA	NA	12	2.4	2.8 ~ 36	-V _S ~ V _S -1.5	180	Open-Drain	No	SOIC-8,TDFN-3x3-8L	High Voltage, High Precision, Single, Open-Drain Output
2	SGM8772	50	60	12	12	4	2.8 ~ 36	-V _S ~ V _S -1.5	210	Push-Pull	Yes	MSOP-10	High Voltage, High Precision, Dual, Push-Pull Output
2	SGM8773	60	60	20	20	2.4	2.8 ~ 36	-V _S ~ V _S -1.5	165	Push-Pull	Yes	SOIC-8,TDFN-3x3-8L	High Voltage, High Precision, Dual, Push-Pull Output
1	SGM8774-1	50	NA	NA	20	2.8	2.8 ~ 36	-V _S ~ V _S -1.5	240	Open-Drain	No	SOT-23-5	High Voltage, High Precision, Single, Open-Drain Output
1	SGM8776-1	180 ^{††}	240 ^{††}			3	3.4 ~ 30	-V _S ~ V _S -2	3300	Open-Drain	No	SOIC-8	High Voltage, Open-Drain Output
1	SGM8780-1	180 ^{††}	240 ^{††}			3	3.4 ~ 30	0 ~ V _S -2	3300	Open-Drain	No	SOIC-8	High Voltage, Open-Drain Output

Notes: † Typical Values @ V_{CC} = 3V
 †† Typical Values @ V_{CC} = 30V

High Voltage Comparator

Comparators per Package	Part Number	t _{PD} , H to L @V _{CC} = 5V (ns)	t _{PD} , L to H @V _{CC} = 5V (ns)	Rise Time @V _{CC} = 5V (ns)	Fall Time @V _{CC} = 5V (ns)	V _{OS} Max @25°C (mV)	V _{CC} (V)	Input Common Mode Voltage Range (V)	I _Q /Comp Typ (μA)	Logic Output	Rail-to-Rail Output	Package	Features
2	SGM8770	45			15	2.4	2.8 ~ 36	-V _S ~ V _S -1.5	155	Open-Drain	No	SOIC-8,TDFN-3×3-8L	High Voltage, High Precision, Dual, Open-Drain Output
1	SGM8771	50			12	2.4	2.8 ~ 36	-V _S ~ V _S -1.5	180	Open-Drain	No	SOIC-8,TDFN-3×3-8L	High Voltage, High Precision, Single, Open-Drain Output
2	SGM8772	50	60	12	12	4	2.8 ~ 36	-V _S ~ V _S -1.5	210	Push-Pull	Yes	MSOP-10	High Voltage, High Precision, Dual, Push-Pull Output
1	SGM8774-1	50			20	2.8	2.8 ~ 36	-V _S ~ V _S -1.5	240	Open-Drain	No	SOT-23-5	High Voltage, High Precision, Single, Open-Drain Output
2	SGM8773	60	60	20	20	2.4	2.8 ~ 36	-V _S ~ V _S -1.5	165	Push-Pull	Yes	SOIC-8,TDFN-3×3-8L	High Voltage, High Precision, Dual, Push-Pull Output

Precision Resistor Network

Part Number	Long Term Drift Typ (ppm)	Resistance (Ω)	Number of Resistors Typ	Resistor Matching Tempco Typ (ppm/°C)	Resistor Matching Max Typ (%)	Package	Features
SGM9100-1	15	4×10k	4	0.24	0.01	MSOP-8 (Exposed Pad)	Quad Matched Resistor Network
SGM9100-2	15	4×100k	4	0.24	0.01	MSOP-8 (Exposed Pad)	Quad Matched Resistor Network
SGM9100-3	15	2×10k,2×100k	4	0.24	0.01	MSOP-8 (Exposed Pad)	Quad Matched Resistor Network
SGM9100-5	15	4×1M	4	0.24	0.01	MSOP-8 (Exposed Pad)	Quad Matched Resistor Network

Digital-to-Analog Converter

Part Number	Resolution (Bits)	Update Rate (SPS)	Output Voltage			V _{DD} (V)	INL (LSB)	DNL (LSB)	Offset Error (mV)	Gain Error (% of FSR)	Gain Drift (ppm/°C)	Output Settling Time (μs)	Operating I _Q (μA)	Power-Down I _Q (μA)	Operating Temperature Range (°C)	Package	Features
			Output Channels	Range (V)	Reference												
SGM5347-8	8	90k	8	0 ~ V _{REF}	External	2.8 ~ 5.5	0.2	0.02	3	0.1	2	7	500	0.6	-40 to +125	SOIC-16,TSSOP-16	8 Channels, 8-Bit DAC with Output Operational Amplifier
SGM5347-10	10	83k	8	0 ~ V _{REF}	External	2.8 ~ 5.5	0.8	0.08	3	0.1	2	7	500	0.6	-40 to +125	SOIC-16,TSSOP-16	8 Channels, 10-Bit DAC with Output Operational Amplifier
SGM5347-12	12	77k	8	0 ~ V _{REF}	External	2.8 ~ 5.5	3	0.3	3	0.1	2	7	500	0.6	-40 to +125	SOIC-16,TSSOP-16	8 Channels, 12-Bit DAC with Output Operational Amplifier
SGM5348-8	8	200k	8	0 ~ V _{REF}	External	2.8 ~ 5.5	0.2	0.02	3	0.1	2	7	500	0.6	-40 to +125	TSSOP-16	8 Channels, 8-Bit DAC with Output Operational Amplifier
SGM5348-10	10	200k	8	0 ~ V _{REF}	External	2.8 ~ 5.5	0.8	0.08	3	0.1	2	7	500	0.6	-40 to +125	TSSOP-16	8 Channels, 10-Bit DAC with Output Operational Amplifier
SGM5348-12	12	140k	8	0 ~ V _{REF}	External	2.8 ~ 5.5	3	0.3	3	0.1	2	7	500	0.6	-40 to +125	TSSOP-16,TQFN-3×3-16L	8 Channels, 12-Bit DAC with Output Operational Amplifier
SGM5349-16	16	140k	8	0 ~ V _{REF}	External	2.7 ~ 5.5	8	0.4	1.5	0.1	2	5	800	1	-40 to +125	TSSOP-16,TQFN-4×4-16L	8 Channels, 16-Bit, SPI Interface, Voltage-Output DAC
SGM5351-16	16	140k	1	0 ~ V _{REF}	External	2.7 ~ 5.5	8	0.4	1.5	0.1	2	5	140	0.5	-40 to +125	MSOP-8	16-Bit, Ultra-Low Glitch, Voltage-Output DAC

Digital-to-Analog Converter

Part Number	Resolution (Bits)	Update Rate (SPS)	Output Channels	Output Voltage		Reference	V _{DD} (V)	INL (LSB)	DNL (LSB)	Offset Error (mV)	Gain Error (% of FSR)	Gain Drift (ppm/°C)	Output Settling Time (μs)	Operating I _Q (μA)	Power-Down I _Q (μA)	Operating Temperature Range (°C)	Package	Features
				Range (V)														
SGM5352-16	16	140k	4	0 ~ V _{REFH}		External	2.7 ~ 5.5	6	0.5	1.5	0.01	2	10	450	0.45	-40 to +125	WLCSP-1.64×1.62-16B, TSSOP-16	16-Bit, 4 Channels, Voltage-Output DAC
SGM5353-16	16	700k	1	0 ~ V _{REF} - 1LSB		External	2.7 ~ 5.5	0.15	0.3	0.015	0.0012	0.04	1.5	78		-40 to +125	SOIC-8, TDFN-3×3-8L	16-Bit, Serial Input, Voltage-Output DAC
SGM5355-16	16	140k	1	0 ~ V _{REF}		External	2.7 ~ 5.5	6	0.5	1.5	0.05	2	10	108	0.45	-40 to +125	WLCSP-0.82×1.22-6B, MSOP-8	16-Bit, I ² C Interface, Voltage-Output DAC
SGM71612R8	16	140k	8	0 ~ V _{CC}		Internal/External	2.7 ~ 5.5	1.8	< 1	0.7	< 0.4	1.5	5	800	0.45	-40 to +125	TSSOP-16, TQFN-4×4-16BL, FOCSP-2.6×2.6-16B	8 Channels, 16-Bit, SPI Interface, Voltage-Output DAC
SGM71622R8	16	140k	8	0 ~ V _{REF} /0 ~ 2V _{REF} /0 ~ 1/2V _{REF}		Internal	2.7 ~ 5.5	0.5	0.5	±0.5	±0.05	2	5	3500	0.5	-40 to +125	TQFN-3.5×3.5-16AL, TQFN-3×3-16DL, WLCSP-2.45×2.45-16B	8-Channel, 16-Bit, SPI, Voltage-Output DAC with Internal Reference
SGM71622R8A	16	140k	8	0 ~ V _{REF} /0 ~ 2V _{REF} /0 ~ 1/2V _{REF}		Internal	2.7 ~ 5.5	1	1	±0.5	±0.05	2	5	3500	0.5	-40 to +125	TQFN-3×3-16DL, WLCSP-2.45×2.45-16B	8-Channel, 16-Bit, SPI, Voltage-Output DAC with Internal Reference
SGM71622R8B	16	140k	8	0 ~ V _{REF} /0 ~ 2V _{REF} /0 ~ 1/2V _{REF}		Internal	2.7 ~ 5.5	12	12	±0.5	±0.05	2	5	3500	0.5	-40 to +125	TQFN-3×3-16DL	8-Channel, 16-Bit, SPI, Voltage-Output DAC with Internal Reference
SGM71612R84Z	16	140k	8	0 ~ V _{CC}		Internal/External	2.7 ~ 5.5	1.8	< 1	0.7	< 0.4		5	1000	0.5	-40 to +125	FOCSP-2.6×2.6-16B	8-Channel, 16-Bit, SPI Interface, Voltage-Output DAC

Oversampling Analog-to-Digital Converter

Part Number	Resolution (Bits)	Data Rate (SPS)	Input Channels	Input Voltage		Reference	V _{DD} (V)	INL (ppmFS)	Offset Error (μV)	Gain Error (% of FSR)	Gain Drift (ppm/°C)	Programmable Gain	ENOB (Bits)	Operating I _Q (μA)	Power-Down I _Q (μA)	Operating Temperature Range (°C)	Package	Features
				Range (V)														
SGM51620R	16	2k	4			Internal/External	2.3 ~ 5.5	±4.5		±0.015	1	1 ~ 128	16	175	0.45	-40 to +125	TSSOP-16, TQFN-3.5×3.5-16L	Low-Power, 16-Bit ADC with Integrated PGA and Reference
SGM58031	16	6.25 ~ 960	4	0 ~ V _{DD}		Internal/External	3 ~ 5.5	16	31	0.03	30	2/3 ~ 16	16	255	0.8	-40 to +125	MSOP-10, TDFN-3×3-10L	Ultra Small, Low-Power, 16-Bit, ADC with Internal Reference
SGM58200	24	6.25 ~ 960	4	0 ~ V _{DD}		Internal/External	3 ~ 5.5	16	50	0.08	1	2/3 ~ 16	20.8	255	0.8	-40 to +125	MSOP-10, UTQFN-2×1.5-10L	Ultra Small, Low-Power, 24-Bit, ADC with Internal Reference
SGM58201	24	2k	4			Internal/External	2.3 ~ 5.5	±4.5		±0.015	1	1 ~ 128	22	175	0.45	-40 to +125	TSSOP-16, TQFN-3.5×3.5-16L	Low-Power, 24-Bit ADC with Integrated PGA and Reference
SGM58600	24	2.5 ~ 60000	2	0 ~ AVDD		External	4.75 ~ 5.25	12	8	0.003	±1.5	1 ~ 128	24.8	2700	0.46	-40 to +125	SSOP-20, TQFN-3.5×3.5-20L	Ultra Low-Noise, 24-Bit ADC
SGM58600A	24	2.5 ~ 60000	2	0 ~ AVDD		External	4.75 ~ 5.25	0.00045%FSR		0.004	1.2	1 ~ 128	25	3000	0.47	-40 to +125	SSOP-20, TQFN-3.5×3.5-20L	Ultra Low-Noise, 24-Bit ADC
SGM58601	24	2.5 ~ 60000	8	0 ~ AVDD		External	4.75 ~ 5.25	12	8	0.003	±1.5	1 ~ 128	24.8	2700	0.46	-40 to +125	SSOP-28, TQFN-5×5-28L	Ultra Low-Noise, 24-Bit ADC
SGM58601A	24	2.5 ~ 60000	8	0 ~ AVDD		External	4.75 ~ 5.25	0.00045%FSR		0.004	1.2	1 ~ 128	25	3000	0.47	-40 to +125	SSOP-28, TQFN-5×5-28L	Ultra Low-Noise, 24-Bit ADC
SGM58602	24	2.5 ~ 60000	4	0 ~ AVDD		External	4.75 ~ 5.25	12	8	0.003	±1.5	1 ~ 128	24.8	2700	0.46	-40 to +125	TQFN-5×5-20L	Ultra Low-Noise, 24-Bit ADC
SGM58602A	24	2.5 ~ 60000	4	0 ~ AVDD		External	4.75 ~ 5.25	0.00045%FSR		0.004	1.2	1 ~ 128	25	3000	0.47	-40 to +125	TQFN-5×5-20L	Ultra Low-Noise, 24-Bit ADC

SAR Analog-to-Digital Converter

Part Number	Resolution (Bits)	Sample Rate (SPS)	Input Channels	Input Voltage Range (V)	Reference	V _{DD} (V)	INL (LSB)	DNL (LSB)	THD (dB)	SNR (dB)	SINAD (dB)	SFDR (dB)	Offset Error (LSB)	Gain Error (LSB)	Programmable Gain	Operating I _Q (μA)	Power-Down I _Q (μA)	Operating Temperature Range (°C)	Package	Features
SGM5200	12	1M	16	0 ~ V _{REF} /0 ~ 2V _{REF}	External	2.7 ~ 5.25	±0.8	±0.5	-79	71.4	70.7	81	±1.2	±0.8	No	1100	1.4	-40 to +125	TSSOP-38, TQFN-5×5-32L	12-Bit, 1MSPS, 16-Channel, Single-Ended, Serial Interface SAR ADC
SGM5202-14	14	1M	8	0 ~ V _{REF}	External	2.7 ~ 5.5	±2	±0.7	-87.9	81.5	80.5	90.4	±0.8	-13	No	7500	25.2	-40 to +125	TSSOP-24, TQFN-4×4-24L	Low-Power, 14-Bit, 1MSPS, 8 Channels Unipolar Input SAR ADC
SGM5208-14	14	500k	8	0 ~ V _{REF}	External	2.7 ~ 5.5	±2	±0.7	-87.9	81.5	80.5	90.4	±0.8	-13	No	6500	25.2	-40 to +125	TSSOP-24, TQFN-4×4-24L	Low-Power, 14-Bit, 500kSPS, 8 Channels Unipolar Input SAR ADC
SGM5209-14	14	500k	4	0 ~ V _{REF}	External	2.7 ~ 5.5	±2	±0.7	-87.9	81.5	80.5	90.4	±0.8	-13	No	6500	25.2	-40 to +125	TSSOP-24, TQFN-4×4-24L	Low-Power, 14-Bit, 500kSPS, 4 Channels Unipolar Input SAR ADC
SGM51242R2	12	250k	2	0 ~ V _{REF} /0 ~ 2V _{REF}	Internal/External	2.7 ~ 5.5	-1.58 ~ 1.78	±1	-95	70	70	96	-18 to 14.7	-7.8 to 9.8	No	1940	< 340	-40 to +125	TQFN-3×3-16BL	2-Channel, SPI Interface, 12-Bit ADC with On-Chip Reference
SGM51242R4	12	250k	4	0 ~ V _{REF} /0 ~ 2V _{REF}	Internal/External	2.7 ~ 5.5	-1.58 ~ 1.78	±1	-95	70	70	96	-18 to 14.7	-7.8 to 9.8	No	1940	< 340	-40 to +125	TSSOP-16, TQFN-3×3-16BL	4-Channel, SPI Interface, 12-Bit ADC with On-Chip Reference
SGM51242R8	12	250k	8	0 ~ V _{REF} /0 ~ 2V _{REF}	Internal/External	2.7 ~ 5.5	-1.58 ~ 1.78	±1	-95	70	70	96	-18 to 14.7	-7.8 to 9.8	No	1940	< 340	-40 to +125	TSSOP-16, TQFN-3×3-16BL	8-Channel, SPI Interface, 12-Bit ADC with On-Chip Reference
SGM51613D	16	800k	1	0 ~ V _{REF} + 0.1	Internal/External	4.75 ~ 5.25	±1.2	-0.65/+0.85	-98	90.6	90.4	104	4	6.5	No	7300	7.5	-40 to +125	TSSOP-16, TQFN-4×4-16L	16-Bit, High-Speed, True Differential Input, SAR ADC
SGM51613H	16	800k	1	±10.24/±5.12/±2.56/0 ~ 10.24/0 ~ 5.12	Internal/External	4.75 ~ 5.25	±1.5/±2	-0.6/+0.75 & -0.7/+1.4	-100	90.5	90.3	104	±1	±0.6	Yes	7300	7.5	-40 to +125	TSSOP-16, TQFN-4×4-16L	16-Bit, High-Speed, Programmable Bipolar Input Ranges, SAR ADC
SGM51622D	16	250k	1	0 ~ V _{REF} + 0.1	Internal/External	4.75 ~ 5.25	±1	-0.55/+0.75	-100	91.4	91	106	4	6.5	No	4800	7.5	-40 to +125	TSSOP-16, TQFN-4×4-16L	16-Bit, High-Speed, True Differential Input, SAR ADC
SGM51622H	16	250k	1	±10.24/±5.12/±2.56/0 ~ 10.24/0 ~ 5.12	Internal/External	4.75 ~ 5.25	±1/±1.5	-0.55/+0.75 & -0.7/+1.2	-104	91	90.7	108	±1	±0.6	Yes	4800	7.5	-40 to +125	TSSOP-16, TQFN-4×4-16L	16-Bit, High-Speed, Programmable Bipolar Input Ranges, SAR ADC
SGM51622S8	16	250k	8	±10/±5	Internal/External	4.75 ~ 5.25	±1.5	-0.65/+1	-105	93	90	-109	±1	±20	No	34000	15	-40 to +125	LQFP-10×10-64L	8-Channel, 16-Bit, Bipolar Input Simultaneous Sampling ADC
SGM51652D	16	500k	1	0 ~ V _{REF} + 0.1	Internal/External	4.75 ~ 5.25	±1	-0.55/+0.75	-100	91.4	91	106	4	6.5	No	6300	7.5	-40 to +125	TSSOP-16, TQFN-4×4-16L	16-Bit, High-Speed, True Differential Input, SAR ADC
SGM51652H	16	500k	1	±10.24/±5.12/±2.56/0 ~ 10.24/0 ~ 5.12	Internal/External	4.75 ~ 5.25	±1/±1.5	-0.55/+0.75 & -0.7/+1.2	-104	91	90.7	108	±1	±0.6	Yes	6300	7.5	-40 to +125	TSSOP-16, TQFN-4×4-16L	16-Bit, High-Speed, Programmable Bipolar Input Ranges, SAR ADC
SGM51652H4	16	500k	4	±10.24/±5.12/±2.56/0 ~ 10.24/0 ~ 5.12	Internal/External	4.75 ~ 5.25	±1.3	-0.6/+0.9	-99	89.5	89.1	101	±1	±32	Yes	11000	4	-40 to +125	TSSOP-38	16-Bit, 500kSPS, 4-Channel, Bipolar Input Ranges, SAR ADC
SGM51652H8	16	500k	8	±10.24/±5.12/±2.56/0 ~ 10.24/0 ~ 5.12	Internal/External	4.75 ~ 5.25	±1.3	-0.6/+0.9	-99	89.5	89.1	101	±1	±32	Yes	14500	4	-40 to +125	TSSOP-38	16-Bit, 500kSPS, 8-Channel, Bipolar Input Ranges, SAR ADC
SGM51652S8	16	500k	8	±10/±5	Internal/External	4.75 ~ 5.25	±1.5	-0.8/+1.5	-99	93.5	88.8	-104	±1	±20	No	43500	15	-40 to +125	LQFP-10×10-64L	8-Channel, 16-Bit, Bipolar Input Simultaneous Sampling ADC

High Speed Analog-to-Digital Converter

Part Number	Resolution (Bits)	Data Rate (SPS)	Input Channels	Input Voltage Range (V)	V _{DD} (V)	INL (LSB)	DNL (LSB)	SNR (dB)	SINAD (dB)	SFDR (dB)	Offset Error (LSB)	Gain Error (LSB)	Operating I _Q (μA)	Operating Temperature Range (°C)	Package	Features
SGM5100	14	10M	1	±0.5 ~ ±1	2.7 ~ 3.4	±1.7	±0.65	74.1	72.6	79	±2mV	±0.5	18500	-40 to +125	TQFN-5×5-32DL	14-Bit, 10MSPS/40MSPS Low Power 3V ADC
SGM5101	14	40M	1	±0.5 ~ ±1	2.7 ~ 3.4	±1.7	±0.65	72.8	72	88	±2mV	±0.5	63400	-40 to +125	TQFN-5×5-32DL	14-Bit, 10MSPS/40MSPS Low Power 3V ADC
SGM5102	14	25M	2	1V _{PP} ~ 2V _{PP}	1.7 ~ 1.9	±1.5	±0.6	71	71	93	±3mV	0.1	14000	-40 to +125	TQFN-6×6-40AL	14-Bit, 25MSPS, Low Power Dual Analog-to-Digital Converter Cores

AFE

Part Number	Resolution (Bits)	Input Channels	Input Voltage		Reference	V _{DD} (V)	INL (LSB)	DNL (LSB)	Gain Error (% of FSR)	Operating	Power-Down	Operating	Package	Features
			Range (V)							I _Q (μA)	I _Q (μA)	Temperature Range (°C)		
SGM90810	12	8	0 ~ V _{REF} - 1.5LSB	Internal/External	3.0 ~ 5.5	±1	±1	±0.14	2500	<15		-40 to +125	TSSOP-16	12-Bit, 8-Channel, Digital System Monitor with Temperature Sensor, Internal/External Reference, and I ² C Interface

Voltage Reference

Part Number	V _O (V)	Reference Voltage	Initial Accuracy Max (%)	V _O Adj Min (V)	V _O Adj Max (V)	I _Z for Regulation Min (μA)	Temperature		Operating Temperature Range (°C)	I _{OUT} /I _{KA} Max (mA)	Package	Features
							Coefficient Max (ppm/°C)	Max (ppm/°C)				
LM431SH	2.5	Adj	0.5	2.5	33	400			-40 to +125	100	SOT-23	Precision Programmable Voltage Reference
SGM431	2.5	Adj	0.5,1	2.5	36	400	60		-40 to +125	100	SOIC-8,SOT-23,SOT-89-3,SOT-23-5,SC70-6	Adjustable Precision Shunt Regulator
SGM431V	1.24	Adj	0.5,1	1.24	18	65			-40 to +125	70	SOT-23	Adjustable Precision Shunt Regulator
SGM431VBQ	1.24	Adj	0.5	1.24	18	65			-40 to +125	70	SOT-23	Automotive, Precision Programmable Voltage Reference
SGM432	2.5	Adj	0.5,1	2.5	36	400	60		-40 to +125	100	SOT-89-3,SOT-23,SOT-23-5	Adjustable Precision Shunt Regulator
SGM432BQ	2.5	Adj	0.5	2.5	36	400			-40 to +125	100	SOT-23	Automotive, Precision Programmable Reference
SGM4024xQ	1.25,1.8,2.5,3.0,3.3,4.096,5.0	Fixed	0.05				10		-40 to +125	10	SOT-23-5	Automotive, Low Drift, Low Power, Small-Package Voltage Reference
SGM4025	1.25,2.048,2.5,3.0,3.3,4.096	Fixed	0.1				30		-40 to +125	10	UTQFN-1.5×1.5-8L	30ppm/°C, 230μA, CMOS Voltage Reference
SGM4027	2.048,2.5,3.0,3.3,4.096	Fixed	0.1				35		-40 to +125	10	SOT-23	35ppm/°C, 245μA, CMOS Voltage Reference
SGM4029	2.5,3.0,4.096	Fixed	0.1				10		-40 to +125	10	SOIC-8	Low Noise, Low Drift, Precision Voltage Reference
SGM4040B	2.5	Fixed	0.2			48	20 [†]		-40 to +125	15 [†]	SOT-23	Micro-Power, Precision Shunt Voltage Reference
SGM4041	1.2,Adj	Fixed, Adj	0.3,0.5	1.206	10	45	20 [†]		-40 to +125	12 [†]	SC70-5,SOT-23	Micro-Power, Precision Shunt Voltage Reference
SGM4051C	1.2,Adj	Fixed, Adj	0.5	1.206	10	45	20 [†]		-40 to +125	12 [†]	SC70-5,SOT-23	Micro-Power, Precision Shunt Voltage Reference

Note: † Typical Values @ 25°C

Audio Digital-to-Analog Converter

Part Number	Output Channels	Resolution (Bits)	Sampling Frequency (kHz)	Output Voltage Range (V)		V _{DD} (V)	AV _{DD} (V)	THD+N (dB)	DR, SNR (dB)	Crosstalk (dB)	Package	Features
				Range (V)	Range (V)							
SGM56101Q	8	32	8 ~ 192	2.55 ~ 3.11	2.3 ~ 3.6	3.0 ~ 3.6	91.5	110	109	109	TQFN-5×5-32FL	32-Bit, 8-CH, 192kHz, High Performance Audio DAC for Automotive Applications

Headphone Driver

Part Number	P_O $R_L = 16\Omega$	Output Power $R_L = 32\Omega$	Stereo or Mono	V_{CC} (V)	Differential Input	Shutdown Logic	Shutdown Current (μA)	Click-Pop Suppression	Package	Features
	THD $\leq 0.1\%$, $V_{CC} = 5.0V$	THD $\leq 0.1\%$, $V_{CC} = 5.0V$								
SGM4809	158mW/CH	87mW/CH	Stereo	2.5 ~ 5.5	No	Active Low	0.6	Yes	MSOP-8	Headphone Driver with Active Low Shutdown Mode
SGM4810	158mW/CH	87mW/CH	Stereo	2.5 ~ 5.5	No	Active High	0.5	Yes	MSOP-8	Headphone Driver with Active High Shutdown Mode
SGM4812	132mW/CH	82mW/CH	Stereo	2.7 ~ 5.5	Yes	Active High	0.36	Yes	MSOP-10	Headphone Driver with Differential Input
SGM4915	145mW/CH	85mW/CH	Stereo	2.5 ~ 5.5	No	Active Low	0.02	Yes	TDFN-2x2-8L	Headphone Driver with Small Package
SGM4916		88mW/CH	Stereo	2.7 ~ 5.5	No	Active Low	0.01	Yes	TQFN-3x3-12L	OCL Headphone Driver
SGM4917		80mW/CH	Stereo	2.7 ~ 5.5	Yes	Active Low	0.01	Yes	TQFN-3x3-16L	OCL Headphone Driver with Differential Input
SGM4918		80mW/CH	Stereo	2.7 ~ 5.1	No	Active Low	0.01	Yes	TDFN-3x3-10L	OCL Headphone Driver
SGM8910		55mW/CH	Stereo	2.8 ~ 12	Yes	Active Low	470	Yes	TSSOP-20, TQFN-4x4-20L	Audio Line Driver and Headphone Driver with Click-Pop Noise Cancellation

Class AB Audio Power Amplifier

Part Number	P_O $R_L = 8\Omega$	Output Power $R_L = 8\Omega$	Stereo or Mono	V_{CC} (V)	Differential Input	Shutdown Logic	Shutdown Current (μA)	Package	Features
	THD $\leq 1\%$, $V_{CC} = 3.6V$	THD $\leq 1\%$, $V_{CC} = 5.0V$							
SGM4863	0.7W/CH	1.3W/CH	Stereo	2.8 ~ 5.5	No	Active High	0.03	TSSOP-20 (Exposed Pad), TSSOP-16 (Exposed Pad), TQFN-3x3-20L, SOIC-16, DIP-16	ClassAB, BTL Output with Headphone Driver
SGM4865	0.7W/CH	1.3W/CH	Stereo	2.6 ~ 5.5	No	Active Low	0.03	TQFN-4x4-16L	ClassAB, BTL Output
SGM4871		1.2W/CH	Mono	2.5 ~ 5.5	No	Active High	0.07	SOIC-8, SOIC-8 (Exposed Pad)	ClassAB, BTL Output
SGM4890	0.58W/CH	1.1W/CH	Mono	2.5 ~ 5.5	No	Active Low	0.01	MSOP-8	ClassAB, BTL Output
SGM4891	0.6W/CH	1.2W/CH	Mono	2.5 ~ 5.5	No	Active Low	0.02	TDFN-2x2-8L	ClassAB, BTL Output
SGM4895	0.65W/CH	1.3W/CH	Mono	2.5 ~ 5.5	Yes	Active Low	0.01	TDFN-3x3-8L, MSOP-8 (Exposed Pad)	ClassAB, Fully Differential Input, BTL Output
SGM4995	0.65W/CH	1.3W/CH	Mono	2.5 ~ 5.5	Yes	Active Low	0.02	TDFN-2x2-8L	ClassAB, Fully Differential Input, BTL Output
SGM4996	0.65W/CH	1.3W/CH	Mono	2.5 ~ 5.5	Yes	Active Low	0.01	MSOP-8, MSOP-10, TDFN-3x3-10L	ClassAB, Fully Differential Input, BTL Output

Class D Audio Power Amplifier

Part Number	Architecture	Output Power		Stereo or Mono	V_{CC} (V)	Shutdown Logic	Shutdown Current (μA)	Package	Features
		Max (W)	THD+N						
ft2830P	Class-G	4.5	0.05	Mono	3.2 ~ 4.6	Active Low	0.1	TSSOP-20 (Exposed Pad)	4.5W Dual-Pump™ Class-G Audio Power Amplifier
ft2910P	Class-G	7.2	0.03	Stereo	3 ~ 5.5	Active Low	1	TSSOP-20 (Exposed Pad)	7.2W Boosted Class-G Audio Power Amplifier with Automatic Level Control & Battery Tracking AGC

Class D Audio Power Amplifier

Part Number	Architecture	P _O Max (W)	THD+N	Stereo or Mono	V _{CC} (V)	Shutdown Logic	Shutdown Current (μA)	Package	Features
SGM2820	Class-D	2.4	0.03	Mono	2.5 ~ 5.5/2.5 ~ 4.5	Active Low	0.1	UTQFN-1.5×1.5-9L,MSOP-8	2.4W Low EMI Class-D Audio Power Amplifier with Auto-Recovering Short-Circuit Protection
SGM2821	Class-D	3	0.05	Mono	2.5 ~ 5.5	Active Low	0.1	UTQFN-1.5×1.5-9L	3W Low EMI Class-D Audio Power Amplifier with Dual Mode of Automatic Level Control
SGM2822	Class-D	2.4	0.03	Mono	2.5 ~ 5.5	Active Low	0.1	UTQFN-1.2×1.2-9L	2.4W Low EMI Class-D Audio Power Amplifier with Auto-Recovering Short-Circuit Protection
SGM4700	Class-D	32	0.02	Stereo, Mono	5 ~ 20	Active Low	45	TSSOP-28 (Exposed Pad)	High-Power Stereo Class-D Audio Power Amplifier with Adjustable Power Limit and Automatic Level Control
SGM4703	Class-D	40	0.02	Stereo, Mono	5 ~ 26	Active Low	55	TSSOP-28 (Exposed Pad)	High-Power Stereo Class-D Audio Power Amplifier with Adjustable Power Limit and Automatic Level Control

High Performance Audio Line Driver

Part Number	Output Voltage R _L = 2.5kΩ THD = 1%, V _{CC} = 5.0V	Output Voltage R _L = 2.5kΩ THD = 1%, V _{CC} = 3.3V	Stereo or Mono	V _{CC} (V)	Differential Input	Shutdown Logic	Shutdown Current (μA)	Click-Pop Suppression	Package	Features
SGM8903	3.05Vrms	2.05Vrms	Stereo	3.0 ~ 5.5	Yes	Active Low	130	Yes	TSSOP-14	600Ω Audio Line Driver with UVP Function
SGM8904	3.05Vrms	2.05Vrms	Stereo	3.0 ~ 5.5	No	Active Low	130	Yes	MSOP-10	600Ω Audio Line Driver with UVP Function
SGM8905	3.05Vrms	2.05Vrms	Stereo	3.0 ~ 5.5	No	Active Low	130	Yes	MSOP-10 (Exposed Pad)	600Ω Audio Line Driver with UVP Function
SGM8909	3.05Vrms†	2.05Vrms†	Stereo	2.8 ~ 5.5	No	Active Low	3400	Yes	TSSOP-14	Audio Line Driver with Power On/Off Timing Control
SGM89000		2.05Vrms	Stereo	3.0 ~ 3.6	Yes	Active Low	130	Yes	TSSOP-14	600Ω Audio Line Driver with UVP Function
SGM89111	3.05Vrms	2.05Vrms	Stereo	3.0 ~ 5.5	Yes	Active Low		Yes	TSSOP-20	Audio Line Driver with Video Driver

Note: † R_L = 600Ω

High Performance Click-Pop Noise Suppressor

Channels per Package	Part Number	Type of Switch	V _{CC} (V)	Quiescent Current (μA)	R _{ON} (Ω)	Bandwidth @-3dB (MHz)	Digital I/O V _{INH} Min (V)	Digital I/O V _{INL} Max (V)	t _{ON} (ns)	t _{OFF} (ns)	Package	Features
2	SGM3714	SPST	2.7 ~ 9	375	0.2	220	1.6	0.4	210ms	720ms	TQFN-3×3-16L,WLCSP-1.62×1.23-12B	Excellent THD, Low R _{FLAT(ON)} , Click-Pop Noise Suppressor, Rail-to-Rail Negative Signal Passing
2	SGM4806	1:2	2.7 ~ 12	520	0.8	100	1.5	0.5	880000	190000	WLCSP-1.27×2.13-15B,SOIC-16,TQFN-4×4-16L	0.8Ω, High Voltage, Rail-to-Rail Negative Signal Passing, Mute Function
2	SGM4807	SPST	1.7 ~ 5	1.5	0.1		1.5	0.4	110	Adj	WLCSP-1.57×0.80-8B,MSOP-8,TDFN-2×2-8L	Power On/Off and Turn On/Off Timing Control
2	SGM4808	SPST	2.7 ~ 12	350	1.1	160	1.4	0.4	1200000	130000	TQFN-2.6×1.8-16L,SOIC-16	1.1Ω, High Voltage, Rail-to-Rail Negative Signal Passing
2	SGM4808B	SPST	2.7 ~ 12	300	1	160	1.4	0.4	200	60	TQFN-2.6×1.8-16L	1Ω, High Voltage, Rail-to-Rail Negative Signal Passing

High Performance Video Buffer

Part Number	Standard Definition Channels	High Definition Channels	1080p Support	Shut-down	V _{CC} (V)	Internal Gain (dB)	-3dB Bandwidth Typ (MHz)	-0.1dB Bandwidth Typ (MHz)	Rail-to-Rail Output	Internal Filter	Quiescent Current (mA)	Slew Rate Typ (V/μs)	Group Delay (ns)	Package	Features
SGM9111	1			No	3.0 ~ 5.5	6	8	6	Yes	Yes	6	35	28	SOIC-8,SC70-5	Single Channel, Standard Definition, Small Package
SGM9113	1			No	3.0 ~ 5.5	6	8	6	Yes	Yes	6	35	28	SOIC-8,SC70-5	Single Channel, Standard Definition, Small Package
SGM9114	1			Yes	3.0 ~ 5.5	6	8	6	Yes	Yes	6	35	28	SOT-23-6	Single Channel, Standard Definition, Small Package with Shutdown
SGM9115	3			No	3.3 ~ 5.5	6	9	5.5	Yes	Yes	21	44	31	SOIC-8	Triple Channels, Standard Definition
SGM9116		3		No	3.3 ~ 5.5	6	38.5	30.5	Yes	Yes	30	165	3	SOIC-8	Triple Channels, High Definition, 1080i Supported
SGM9117		3	Yes	No	2.5 ~ 5.5	6	200	92	Yes	No	27.5	300	3	SOIC-8	Triple Channels, High Definition, 1080p Supported
SGM9119	3			No	3.3 ~ 5.5	6	8	5.56	Yes	Yes	21	31.5	31.2	SOIC-8,MSOP-8	Triple Channels, Standard Definition
SGM9121	1			Yes	3.0 ~ 5.5	6	8	6	Yes	Yes	6	35	28	SC70-6	Single Channel, Standard Definition, Small Package with Shutdown
SGM9122	2			No	3.0 ~ 5.5	6	15	8.9	Yes	Yes	5.8			WSOP-8,TSSOP-8	Dual Channels, Standard Definition
SGM9124	4			No	3.3 ~ 5.5	6	8	5.9	Yes	Yes	30	35	28	MSOP-10	Quad Channels, Standard Definition
SGM9125	5			No	3.3 ~ 5.5	6	8	5.8	Yes	Yes	44	35	30.4	TSSOP-14	Five Channels, Standard Definition
SGM9126	6			No	3.3 ~ 5.5	6	8	5.7	Yes	Yes	44	35	30.5	TSSOP-14	Six Channels, Standard Definition
SGM9127	4			No	3.3 ~ 5.5	6	8	5.9	Yes	Yes	30	35	28	TSSOP-14	Quad Channels, Standard Definition
SGM9128YP	1	3		No	3.1 ~ 5.5	6	8.5/46	6.4/32	Yes	Yes	65	34/190	30/2.5	MSOP-10 (Exposed Pad)	Single SD Channel, Triple HD Channels, 1080i Supported, Exposed Pad
SGM9131		3		No	3.1 ~ 5.5	6	46	32	Yes	Yes	55	190	3.5	SOIC-8	Triple Channels, High Definition, 1080i Supported
SGM9132		3	Yes	No	3.1 ~ 5.5	6	98	78	Yes	Yes	75	340	5.3	SOIC-8 (Exposed Pad)	Triple Channels, High Definition, 1080p Supported
SGM9133	1	3	Yes	Yes	3.1 ~ 5.5	6	8.5/46/98	6.4/32/78	Yes	Yes	75	34/190/340	35/3.5/7	TSSOP-14	Single SD Channel, Triple HD Channels, 1080i/1080p Supported with Shutdown
SGM9134	1	3		No	3.1 ~ 5.5	6	8.5/46	6.4/32	Yes	Yes	58	34/190	35/3.5	TSSOP-14	Single SD Channel, Triple HD Channels, 1080i Supported
SGM9135	1	3	Yes	No	3.1 ~ 5.5	6	8.5/98	6.4/78	Yes	Yes	88	34/340	35/5.3	MSOP-10 (Exposed Pad)	Single SD Channel, Triple HD Channels, 1080p Supported
SGM9141	1			No	4.5 ~ 13.2	6	25	17	Yes	No	9			SOIC-8,TSSOP-8	Triple Channels, Standard Definition
SGM9144	1			Yes	2.5 ~ 4.0	6/12	14/14		Yes	Yes	11.8	60		MSOP-8,TDFN-2x2-8L	Single SD Channel, Capless Output Coupling
SGM9147	1			No	3.0 ~ 5.5	6	13	10	Yes	Yes	5	60	6	SC70-5	Single Channel, Standard Definition, Small Package
SGM9148	1			Yes	3.0 ~ 5.5	6	13	10	Yes	Yes	5	60	6	SOT-23-6	Single Channel, Standard Definition, Small Package with Shutdown
SGM9152		1	Yes	Yes	3.1 ~ 5.5	6	79	64	Yes	Yes	15	300	3.5	MSOP-8	Single HD Channel, 1080p Supported
SGM9153		1	Yes	Yes	2.5 ~ 4.0	6	82	62	Yes	Yes	36	305	6.2	MSOP-10,TDFN-3x3-10L	Single HD Channel, 1080p Supported, Capless Output Coupling
SGM9154		1	Yes	Yes	3.1 ~ 5.5	6	79	64	Yes	Yes	15	300	3.5	TSSOP-8,SOT-23-6,SC70-5	Single HD Channel, 1080p Supported
SGM9155		1		Yes	3.1 ~ 5.5	6	40		Yes	Yes	12.5	175	3.8	SOT-23-6,SC70-5	Single HD Channel, 720p Supported
SGM9203	3	3	Yes	Yes	3.3 ~ 5.5	6/0	8/18/38/75	5.4/12/30/40	Yes	Yes	40	40/78/155/311	22/13.5/9.5/NA	TSSOP-14	Triple Channels, Selectable SD/PS/HD(1080i)/HD(1080p) with Shutdown
SGM9346	3	3		No	3.3 ~ 5.5	6	8/35	5.36/28.2	Yes	Yes	64.5	39.5/140	10.5/4.9	TSSOP-20	Triple SD Channels, Triple HD Channels

Analog Switch

Channels per Package	Part Number	Type of Switch	V _{CC} (V)	Quiescent Current (μA)	R _{ON} (Ω)	Charge Injection (pC)	Bandwidth @-3dB (MHz)	Digital I/O V _{INH} Min (V)	Digital I/O V _{INL} Max (V)	t _{ON} (ns)	t _{OFF} (ns)	Package	Features
4	74CB3Q3125	1:4	2.3 ~ 3.6	300	3.5		500	1.7	0.7	7.5	5.5	TSSOP-14	Quadruple FET Bus Switch, 2.5V/3.3V Low Voltage, High-Bandwidth Bus Switch
4	74CBTLV3125	1:4	2.3 ~ 3.6	0.8	2.1		125	1.7	0.7	4.5	4	TSSOP-14, SOIC-14, SSOP-16, TQFN-3.5×3.5-14AL	Low Voltage Quadruple FET Bus Switch
4	74CBTLV3126	1:4	2.3 ~ 3.6	0.8	2.1		130	1.7	0.7	4	5	TSSOP-14, SOIC-14, SSOP-16, TQFN-3.5×3.5-14AL	Low Voltage Quadruple FET Bus Switch
2	SGM2258	SPDT	1.8 ~ 5.5	<1	4.5	6	300	1.6	0.5	70	20	TQFN-2.1×1.6-10L	USB2.0 Full Speed Analog Switch
2	SGM2260	SPDT	1.8 ~ 4.3	<1	6	10	300	1.6	0.5	20	20	UTQFN-1.8×1.4-10L	6Ω, 300MHz, Low-Power Full-Speed USB (12Mbps) Switch
2	SGM2267	SPDT	1.8 ~ 4.2	<1	0.45	4	40	1.6	0.4	96	16	TQFN-2.1×1.6-10L	Ultra Low R _{ON} , Tiny Package, Dual SPDT
2	SGM2268	SPDT	1.8 ~ 4.2	<1	0.4	4	40	1.6	0.5	88	16	TQFN-1.8×1.4-10L	Ultra Low R _{ON} , Tiny Package, Dual SPDT
1	SGM3001	SPDT	1.8 ~ 5.5	<1	2.5	3	120	2.4	0.8	11	30	SC70-6	Small Package, 120MHz, Low R _{ON} , Single SPDT
2	SGM3002	SPDT	1.8 ~ 5.5	<1	2.5	3	120	2.4	0.8	11	8	MSOP-10	Small Package, 120MHz, Low R _{ON} , Dual SPDT
1	SGM3003	SPDT	1.8 ~ 5.5	<1	0.5	5	30	2.4	0.8	21	9	MSOP-8	Small Package, 30MHz, Ultra Low R _{ON} , Single SPDT
2	SGM3005	SPDT	1.8 ~ 5.5	<1	0.5	20	15	2.4	0.8	50	15	TDFN-3×3-10L, MSOP-10	Tiny Package, 15MHz, Ultra Low R _{ON} , Dual SPDT
2	SGM3005C	SPDT	1.8 ~ 5.5	<1	0.6	20	15	2.4	0.6	50	15	MSOP-10	15MHz, Ultra Low R _{ON} , Dual SPDT
1	SGM3157	SPDT	1.8 ~ 5.5	<5	6		300	1.8	0.4	20	15	SC70-6	300MHz, Small Package, Single SPDT
2	SGM3158	SPDT	1.8 ~ 5.5	<5	4.5		270	1.5	0.6	20	15	TDFN-3×1-12L	270MHz, Tiny Package, Dual SPDT
1	SGM3167	SPDT	1.8 ~ 5.5	<5	9		600	1.5	0.6	20	15	SC70-6	600MHz, Small Package, Single SPDT
4	SGM330A	SPDT	2.7 ~ 5.5	0.1	15		500	2	0.6	45	25	SOIC-16, TSSOP-16, SSOP-16	Quad, SPDT Video Analog Switch
4	SGM331A	SPDT	5	<20	12		500	2	0.6	25	13	SOIC-16, TSSOP-16, SSOP-16	Quad, SPDT Video Analog Switch with 1.2V Self Bias
4	SGM3699	SPDT	1.8 ~ 4.35	<1	0.5	30	70	1.6	0.5	52	25	TQFN-3×3-16L	70MHz, Low Voltage, Low I _Q , Ultra Low R _{ON} , Quad SPDT
2	SGM3700	DPDT	2.5 ~ 5.5	<15	4	21	380	1.5	0.5	15	9	TQFN-3×3-16L	380MHz, Negative Signal Passing, Dual DPDT, Tiny Package
2	SGM3701	SPDT	2.5 ~ 5.5	370 @5.5V	0.5 @5.5V	330 @5.5V	140 @5.5V	0.8	0.4	28μs @5.5V	1.5μs @5.5V	UTQFN-1.8×1.4-10L	0.5Ω, Ultra-Low On-Resistance, Dual SPDT Analog Switch
2	SGM3705	SPST	2.7 ~ 5.5	1070	0.2	2550	140	0.78	0.42	290	1300	TQFN-4×4-16L, WLCSP-2.11×2.2-12B	0.2Ω, Low THD+N, Wide Positive and Negative Signal Passing, Dual SPST Analog Switch
2	SGM3710	SPDT	2.7 ~ 12	300	1/11	600	160/130	1.4	0.4	200	100	TQFN-2.6×1.8-16L, SOIC-16	1Ω/11Ω, High Voltage, Rail-to-Rail Negative Signal Passing
2	SGM3711	SPDT	2.7 ~ 12	300	11	80	300	1.4	0.4	200	60	SOIC-16, TQFN-2.6×1.8-16L	Excellent THD, High Off-Isolation, Very Low Crosstalk, Rail-to-Rail Negative Signal Passing
2	SGM3712	SPDT	2.7 ~ 12	600	0.9	500	100	1.5	0.5	400	100	WLCSP-1.27×2.13-15B, SOIC-14	Excellent THD, Low R _{FLAT(ON)} , Rail-to-Rail Negative Signal Passing
2	SGM3713	SPST	2.7 ~ 9	375	0.18	320	220	1.6	0.4	175	520	TQFN-3×3-16L, WLCSP-1.62×1.23-12B	Excellent THD, Low R _{FLAT(ON)} , Rail-to-Rail Negative Signal Passing
2	SGM3714	SPST	2.7 ~ 9	375	0.18	320	220	1.6	0.4	210ms	720ms	TQFN-3×3-16L, WLCSP-1.62×1.23-12B	Excellent THD, Low R _{FLAT(ON)} , Click-Pop Noise Suppressor, Rail-to-Rail Negative Signal Passing
2	SGM3715	SPDT	2.7 ~ 12	520	0.8	1000	100	1.5	0.5	880	190	WLCSP-1.27×2.13-15B, TQFN-4×4-16L	Excellent THD, Low R _{FLAT(ON)} , Click-Pop Noise Suppressor, Rail-to-Rail Negative Signal Passing
1	SGM3716	SPDT	-12 ~ 4	25	4.5	25	400	1.6	0.7	170	95	SC70-6	High Voltage, Negative Voltage SPDT Switch
2	SGM3717	SPDT	2.5 ~ 5.0	<6	4	16	400	1.5	0.6	15	11	UTQFN-1.8×1.4-10L, MSOP-10	400MHz, Negative Signal Passing, Tiny Package, Dual SPDT
2	SGM3718	SPDT	2.5 ~ 5.0	<3.5	0.6	85	80	1.5	0.6	17	24	UTQFN-1.8×1.4-10L	80MHz, Negative Signal Passing, Tiny Package, Dual SPDT
1	SGM3719	SPDT	2.5 ~ 5.0	<8	4	16	400	1.65	0.6	15	11	SOT-23-6	400MHz, Negative Signal Passing, Single SPDT

Analog Switch

Channels per Package	Part Number	Type of Switch	V _{CC} (V)	Quiescent Current (μA)	R _{ON} (Ω)	Charge Injection (pC)	Bandwidth @-3dB (MHz)	Digital I/O V _{INH} Min (V)	Digital I/O V _{NL} Max (V)	t _{ON} (ns)	t _{OFF} (ns)	Package	Features
1	SGM3798	1:2	2.6 ~ 5.0	2	0.075		100	1.4	0.4	205	210	WLCSP-1.2×1.2-9B,TDFN-3×3-8L	Audio Headset Analog Switch with Reduced GND Switch R _{ON} and FM Capability
2	SGM3799	DPDT	1.8 ~ 4.35	<1	0.5	30	70	1.6	0.5	52	25	TQFN-2.6×1.8-16L	70MHz, Low Voltage, Low I _Q , Ultra Low R _{ON} , Dual DPDT
1	SGM4157YC	SPDT	1.8 ~ 5.5	0.1	0.8		90	1.6	0.4	56	32	SC70-6	Low R _{ON} , Small Package, Single SPDT
2	SGM44599	DPDT	1.8 ~ 5.5	<1	4	3.5	300	1.6	0.5	31.5	30	TQFN-3×3-16L,TQFN-2.5×2.5-16L	300MHz, Small Package, Dual DPDT
2	SGM44600	DPDT	1.8 ~ 5.5	<1	4	4.8	300	1.6	0.5	29.5	29.5	TQFN-3×3-16L	300MHz, Small Package, Dual DPDT
2	SGM44601	DPDT	1.8 ~ 5.5	<1	4	3.5	300	1.6	0.5	36	30	TQFN-2.6×1.8-16L	300MHz, Tiny Package, Dual DPDT
2	SGM44602	DPDT	1.8 ~ 5.5	<1	4	4.8	300	1.6	0.5	32	26	TQFN-2.6×1.8-16L	300MHz, Tiny Package, Dual DPDT
2	SGM44603	DPDT	1.8 ~ 5.5	<1	4.5	20	300	1.6	0.5	40	30	TQFN-2.6×1.8-16L	300MHz, Tiny Package, Dual DPDT
4	SGM4510	SPST	4.5 ~ 40		15.5	55	300	1.6	0.5	120	40	SOIC-16	40V, 300MHz, Quad SPST, Fast Turn-On Time
4	SGM4511	SPST	4.5 ~ 40		23	18	300	1.6	0.5	40	120	TSSOP-16,SOIC-16	40V, 300MHz, Quad SPST, Fast Turn-On Time
4	SGM4512	SPST	4.5 ~ 40		23	18	300	1.6	0.5	40	120	TSSOP-16,SOIC-16	40V, 300MHz, Quad SPST, Fast Turn-On Time
2	SGM4515	SPDT	2.7 ~ 24	70	1/11	600	160/130	1.4	0.4	200	60	SOIC-16,TQFN-2.6×1.8-16L	Low R _{FLAT(ON)} , High Off-Isolation, Very Low Crosstalk, Rail-to-Rail Signal Passing
2	SGM4516	SPDT	2.7 ~ 24	70	11	80	300	1.4	0.4	200	60	SOIC-16,TQFN-2.6×1.8-16L	Low R _{FLAT(ON)} , High Off-Isolation, Very Low Crosstalk, Rail-to-Rail Signal Passing
2	SGM4517	SPDT	2.7 ~ 24	350	0.9	500	100	1.5	0.5	400	100	WLCSP-1.27×2.13-15B,SOIC-14	Low R _{FLAT(ON)} , High Off-Isolation, Very Low Crosstalk, Rail-to-Rail Signal Passing
1	SGM4518	1:8	3.2 ~ 36	15	22	90	25	2.4	0.8	80	160	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	36V High Voltage, Single 1:8 Mux
2	SGM4519	1:4	3.2 ~ 36	15	22	50	160	2.4	0.8	80	135	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	36V High Voltage, Dual 1:4 Mux
3	SGM4520	SPDT	3.2 ~ 36	15	22	50	180	2.4	0.8	80	130	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	36V High Voltage, Triple 1:2 Mux
1	SGM4521	SPDT	4 ~ 12	20	4.4	25	450	1.45	0.6	170	65	SC70-6	High Voltage, Positive Voltage SPDT Switch
2	SGM4522Q	1:8	1.62 ~ 5.5	0.01	93	-2 @1.8V	215 @1.8V	1.25 @5V	0.9 @5V	20	20	TSSOP-16,TQFN-2.5×3.5-16AL	Automotive, Bidirectional 8:1, 5V, 1-Channel Multiplexer with Injection Current Control
1	SGM4581	1:8	3.6 ~ 11	<20	36	15	90	2.4	0.8	60	60	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	High Voltage, Single 1:8 Mux
2	SGM4582	1:4	3.6 ~ 11	<20	36	15	120	2.4	0.8	60	60	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	High Voltage, Dual 1:4 Mux
3	SGM4583	SPDT	3.6 ~ 11	<20	36	10	140	2.4	0.8	60	70	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	High Voltage, Triple 1:2 Mux
1	SGM4588	1:8	4.5 ~ 40		23	18	160	1.6	0.5	50	180	TSSOP-16,SOIC-16	40V, 160MHz, Single 1:8 Mux in One Package, GPIO Control
2	SGM4589	1:4	4.5 ~ 40		23	18	300	1.6	0.5	50	180	TSSOP-16,SOIC-16	40V, 300MHz, Dual 1:4 Mux in One Package, GPIO Control
2	SGM4684	SPDT	1.8 ~ 5.5	<1	0.4	3	13	2.4	0.8	25	28	WLCSP-2.0×1.5-10B	Ultra Low R _{ON} , Tiny Package, Dual SPDT
2	SGM4717	SPDT	1.8 ~ 5.5	<5	4.5		300	1.5	0.6	26	20	WLCSP-2.0×1.5-10B,MSOP-10	300MHz, WLCSP, Tiny Package, Dual SPDT
2	SGM4782	1:4	1.8 ~ 4.2	<1	0.5	-18	30	1.6	0.5	20	20	TQFN-3×3-16L,TSSOP-16	Ultra Low R _{ON} , Dual, SPQT
1	SGM48751	1:8	2.5 ~ 5.5	0.001	48	6	180	1.7	0.5	60	70	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	Low R _{ON} , Low Charge Injection, Single 1:8 Mux
1	SGM48751X	1:8	2.5 ~ 5.5	±0.02	52	1	180	1.8	0.5	55	70	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	Low R _{ON} , Low Charge Injection, Single 1:8 Mux (-40°C to +125°C)
2	SGM48752	1:4	2.5 ~ 5.5	0.001	48	3	180	1.7	0.5	60	70	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	Low R _{ON} , Low Charge Injection, Dual 1:4 Mux
2	SGM48752X	1:4	2.5 ~ 5.5	±0.02	52	1	180	1.8	0.5	55	70	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	Low R _{ON} , Low Charge Injection, Dual 1:4 Mux (-40°C to +125°C)

Analog Switch

Channels per Package	Part Number	Type of Switch	V _{CC} (V)	Quiescent Current (μA)	R _{ON} (Ω)	Charge Injection (pC)	Bandwidth @-3dB (MHz)	Digital I/O V _{INH} Min (V)	Digital I/O V _{INL} Max (V)	t _{ON} (ns)	t _{OFF} (ns)	Package	Features
3	SGM48753	SPDT	2.5 ~ 5.5	0.001	48	3	180	1.7	0.5	60	70	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	Low R _{ON} , Low Charge Injection, Triple 1:2 Mux
2	SGM48753X	SPDT	2.5 ~ 5.5	±0.01	55	5	300	1.8	0.5	55	70	SSOP-16,TSSOP-16,SOIC-16,TQFN-3×3-16L	Low R _{ON} , Low Charge Injection, Triple 1:2 Mux (-40°C to +125°C)
4	SGM48754	SPST	2.5 ~ 5.5	0.001	24	7	180	1.7	0.5	40	100	TSSOP-14,SOIC-14	Low R _{ON} , Low Charge Injection, Quad SPST
4	SGM48754X	SPST	2.5 ~ 5.5	±0.01	27	1.5	290	1.8	0.5	35	70	TSSOP-14,SOIC-14	Low R _{ON} , Low Charge Injection, Quad SPST (-40°C to +125°C)
1	SGM48755X	1:4	2.5 ~ 5.5	±0.01	27	1	210	1.8	0.5	40	50	MSOP-10	Low R _{ON} , Low Charge Injection, Single 1:4 Mux (-40°C to +125°C)
1	SGM48756	SPDT	1.8 ~ 5.5	±0.1	3.5		250	1.8	0.4	26	20	SC70-6,XTDFN-1×1-6L,UTDFN-1.45×1-6AL	3.5Ω, Low Voltage SPDT Analog Switch in Ultra-Thin Package
1	SGM48757	SPDT	1.8 ~ 5.5	±0.1	1		72	1.5	0.4	100	100	SC70-6,SOT-23-6,UTDFN-1.45×1-6AL	SPDT 1Ω Analog Switch
2	SGM48759	SPST	1.65 ~ 5.5	0.05	4.5 @4.5V		335 @4.5V	3.5 @5V	1.5 @5V	2.7 @5V	3 @5V	VSSOP-8,MSOP-8	Dual Bilateral Analog Switch
1	SGM48760	SPST	1.65 ~ 5.5	0.05	4.5 @4.5V		335 @4.5V	3.5 @5V	1.5 @5V	2.7 @5V	3 @5V	SC70-5,SOT-23-5	Single SPST Analog Switch
1	SGM48780	1:4	1.8 ~ 4.2	<1	4	10	150	1.4	0.3	35	9	TDFN-3×3-10L,MSOP-10	Single SPQT
4	SGM5018	SPDT	1.8 ~ 5.5	<1	4.5	20	300	1.6	0.5	40	30	TSSOP-16	300MHz, Quad SPDT
2	SGM5223	SPDT	1.8 ~ 4.2	<1	0.5	13	55	1.6	0.5	17	27.5	TQFN-1.8×1.4-10L	Ultra Low R _{ON} , Dual, SPDT
4	SGM65230	1:2	2.3 ~ 3.6	600	4		400 @3.3V	1.7	0.7	12 @3.3V	11 @3.3V	TSSOP-16	4-Bit 1:2 Mux, Low Voltage, High Bandwidth Bus Switch
2	SGM7220DRP	Type C	2.7 ~ 5	70				1.05	0.4			UTQFN-1.6×1.6-12L	USB Type-C Configuration Channel Logic and Port Control
1	SGM7222	DPDT	1.8 ~ 4.3	<1	4.5	11	550	1.6	0.5	10	22	TQFN-1.8×1.4-10L,MSOP-10,UTQFN-1.8×1.4-10L	USB 2.0 High Speed, Single DPDT
1	SGM7223	DPDT	1.8 ~ 4.3	<1	4.5	9.8	500	1.6	0.5	11	20	TQFN-2.1×1.6-10L	USB 2.0 High Speed, Single DPDT
1	SGM7224	DPDT	1.8 ~ 5.5	<0.5	6	2	850	1.5	0.4	28	18	UTQFN-1.8×1.4-10L,MSOP-10	High-Speed USB 2.0 (480Mbps) DPDT
1	SGM7224X	DPDT	1.8 ~ 5.5	<0.5	6	2	850	1.5	0.4	28	18	UTQFN-1.8×1.4-10L,MSOP-10	High-Speed USB 2.0 (480Mbps) DPDT (-40°C to +125°C)
1	SGM7226	DPDT	1.8 ~ 5.5	<30	5	10	550	1.5	0.35	15	20	TQFN-2.6×1.8-16L	5.5V, USB 2.0 High Speed, Single DPDT
1	SGM7227	DPDT	1.8 ~ 4.3	<1	5	1.5	500	1.6	0.3	20	18	MSOP-10,UTQFN-1.8×1.4-10L	550MHz, USB 2.0 Certified, Tiny Package, Single DPDT
1	SGM7228	DPDT	1.8 ~ 4.3	<1	6	11	550	1.6	0.5	10	22	TQFN-1.8×1.4-10L	Low Cost, High Speed USB 2.0 (480Mbps) DPDT
1	SGM7229	DPDT	1.8 ~ 5.5	<0.5	5.5	2	850	1.5	0.4	40	15	UTQFN-1.8×1.4-10L,MSOP-10	High-Speed USB 2.0 (480Mbps) DPDT
1	SGM7229X	DPDT	1.8 ~ 5.5	<0.5	6	2.5	850	1.5	0.4	30	18	UTQFN-1.8×1.4-10L,MSOP-10	High-Speed USB 2.0 (480Mbps) DPDT (-40°C to +125°C)
1	SGM7237B	DPDT	2.7 ~ 5.5	26	1.2/4.5			1.7	0.5	10μs	300	UTQFN-1.8×1.4-10L,MSOP-10	USB 2.0 + Audio Switch, DPDT
2	SGM7300A/B	4×SPDT	3.0 ~ 3.6	80	5		9000/12000	1.35	0.45	210	100	TLGA-2.5×4.5-20L	3.3V, Differential 2-Channel, 2:1 Multiplexer/Demultiplexer Switches
4	SGM7301	8×SPDT	3.0 ~ 3.6	160	4		9100	2	0.4	150	50	ULGA-3.5×9-42L	4-Channel High-Performance Differential Switch
10	SGM7302	10×SPDT	1.5 ~ 5.5	50	3.5		6800	1	0.4	1500†	1500†	FOCSP-2.43×2.43-36B	6.8GHz, 2:1 (SPDT) 10-Channel MIPI Switch with 1.2V Logic Support
2	SGM84782	1:4	1.8 ~ 4.2	<1	4	-18	150	1.6	0.5	17	9	TQFN-3×3-16L,TSSOP-16	Dual SPQT

Note: † Switching Time (SEL to Output)

Application-Specific Switch

Part Number	Type	V _{CC} (V)	Bandwidth @-3dB (MHz)	Control Interface	R _{ON} (Ω)	R _{ON} Flatness (Ω)	C _{ON} (pF)	C _{OFF} C _S /C _D (pF)	Crosstalk Typ (dB)	Charge Injection Typ (pC)	Package	Features
SGM4541		1.62 ~ 1.98		I ² C	22		14				UTDFN-1.45×1-6AL	I ² C Bus Over-Voltage Protector
SGM6501	12×9	3.1 ~ 5.5	84	I ² C					-74		SSOP-28,TSSOP-28	12×9, Buffered
SGM6502	8×6	3.1 ~ 5.5	88	I ² C					-77		TSSOP-24	8×6, Buffered
SGM6503		1.8 ~ 5.5	400	I/O		3.5/0.45	12/185		-80	3/80	TQFN-3×3-20L	SIM I/F Swap
SGM6504	(2:2)×4	1.8 ~ 5.5	400	I/O	12	3.5	12		-80	2.5	TQFN-3×3-20L	4-2:2, Passive Swap
SGM6505	(1:2)×6	2 ~ 5	450	I/O	8.5	4.5	15	4/9	-55	1.2	TSSOP-24,TQFN-4×4-24L	Six Channels 1:2 Multiplexer
SGM6510	16×4	2.7 ~ 5.5	120	I ² C	30	8	40		-110	7	TSSOP-28,TQFN-4×4-28L	16×4, Passive
SGM6511	16×8	2.7 ~ 5.5	120	I ² C	30	8	50		-110	7	TQFN-5×5-32L,LQFP-7×7-32L	16×8, Passive
SGM6512	1:16	3.3 ~ 13.2	80	I/O	24	12	75	8/70	-70	25	TQFN-5×5-32L,TSSOP-28	1:16, Multiplexer
SGM6513	(1:8)×2	3.3 ~ 13.2	135	I/O	24	12	50	8/36	-70	25	TQFN-5×5-32L,TSSOP-28	Dual 1:8, Multiplexer
SGM6514	16×8	2.7 ~ 5.5	250	I ² C	30	8	50		-110	7	LQFP-7×7-32L	High Speed, 16×8, Passive, I ² C Interface
SGM6515	1:8	3.3 ~ 13.2	80	I/O	24	12	75	8/70	-70	25	TSSOP-16	1:8, Multiplexer
SGM6516	16×8	4.5 ~ 13.2	45	I/O	40		65	25	-47		LQFP-10×10-44L	16×8, Passive
SGM65231	SPST×8	2.3 ~ 3.6	500	I/O	4.5		17.2	13.5			TQFN-4.5×3.5-20L,TSSOP-20	8-Bit SPST, Low Voltage, High Bandwidth Bus Switch
SGM65232	(1:2)×32	3.3 ~ 5	100	I/O	11		26	13	-60		LQFP-14×14-100L	High Speed, 32-Bit 2:1 Bus Multiplexer
SGM6533	(1:3)×3	2.5 ~ 5.5	350	I/O	7				-60		TQFN-3×3-20L,TSSOP-20	High Speed, 3-1:3 Multiplexer
SGM7220	Type C	2.7 ~ 5		I ² C,I/O							UTQFN-1.6×1.6-12L	USB Type-C Configuration, Channel Logic and Port Control
SGM7232	(1:3)×2	2.7 ~ 4.3	380/400	I/O	4/9		18	7	-90		UTQFN-2.2×1.4-12L	High Speed, 2-1:3 Multiplexer
SGM7300A/B	2:1	3.0 ~ 3.6	9000/12000	I/O	5		1.5		-45 -30		TLGA-2.5×4.5-20L	3.3V, Differential 2-Channel, 2:1 Multiplexer/Demultiplexer Switches

Voltage Translator (Level Shifter)

Translators per Package	Part Number	Data Rate (Mbps)	V _{CC} (V)	V _L Range (V)	V _{CCA} Range (V)	V _{CCB} Range (V)	Bidirectional	V _{CC} Shutdown I/O State	Shutdown I _{CC} Max (μA)	Logic Output	Package	Features
16	74ALVC164245				1.5 ~ 3.6	1.5 ~ 5.5	Yes	Hi-Z		Push-Pull	TSSOP-48,SSOP-48	16-Bit Dual-Supply Translating Transceiver
16	74AVC16T245	380			0.8 ~ 3.6	0.8 ~ 3.6	Yes	Hi-Z		Push-Pull	TSSOP-48	16-Bit Dual-Supply Translating Transceiver
4	74AVC4T245	380			0.8 ~ 3.6	0.8 ~ 3.6	Yes	Hi-Z		Push-Pull	TSSOP-16,UTQFN-2.6×1.8-16L	4-Bit Dual-Supply Translating Transceiver
4	74AVC4T245Q	380			0.8 ~ 3.6	0.8 ~ 3.6	Yes	Hi-Z		Push-Pull	TSSOP-16,TQFN-3.5×4-16L,TQFN-2.5×3.5-16L	Automotive, 4-Bit Dual-Supply Translating Transceiver
8	74AVC8T245	380			0.8 ~ 3.6	0.8 ~ 3.6	Yes	Hi-Z		Push-Pull	TQFN-5.5×3.5-24L,TSSOP-24	8-Bit Dual-Supply Translating Transceiver

Voltage Translator (Level Shifter)

Translators per Package	Part Number	Data Rate (Mbps)	V _{CC} (V)	V _L Range (V)	V _{CCA} Range (V)	V _{CCB} Range (V)	Bidirectional	V _{CC} Shutdown I/O State	Shutdown I _{CC} Max (μA)	Logic Output	Package	Features
2	74AVCH2T45	500			0.8 ~ 3.6	0.8 ~ 3.6	Yes	Hi-Z		Push-Pull	VSSOP-8	2-Bit Dual-Supply Translating Transceiver
1	74AXC1T45				0.75 ~ 3.6	0.75 ~ 3.6	Yes	Hi-Z		Push-Pull	SC70-6,SOT-23-6,SOT-563-6,XTDFN-1×1-6L	1-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation
4	74GTL2005		3 ~ 3.6				Yes	Hi-Z		Push-Pull	TSSOP-14	Quad GTL/GTL+ to LVTTTL/TTL Bi-Directional Non-Latched Translator
1	74LVC1T45	420			1.65 ~ 5.5	1.65 ~ 5.5	Yes	Hi-Z		Push-Pull	SC70-6,SOT-23-6	Single-Bit Dual-Supply Bus Transceiver
2	74LVC2T45	420			1.65 ~ 5.5	1.65 ~ 5.5	Yes	Hi-Z		Push-Pull	MSOP-8,XTDFN-1.35×1-8L	2-Bit Dual-Supply Bus Transceiver
1	SGM4535		2.7 ~ 5.5	1.6 ~ 5.5			Yes	Low	1		TQFN-5×5-32L	Smart Card Interface
2	SGM4542				0.9 ~ 3.6	0.9 ~ 3.6	Yes	Hi-Z		Open-Drain/Push-Pull	XTDFN-1.35×1-8L	GPIO Level Shifter
2	SGM4551				1.2 ~ 3.3	1.8 ~ 5.5	Yes	Hi-Z	8	Open-Drain	SOT-23-8,XTDFN-1.4×1-8L	I ² C Level Shifter
1	SGM4552	24/2			1.65 ~ 5.5	2.3 ~ 5.5	Yes	Hi-Z	5.5	Open-Drain/Push-Pull	UTDFN-1.45×1-6L,SOT-23-6,SC70-6	GPIO Level Shifter
2	SGM4553	24/2			1.65 ~ 5.5	2.3 ~ 5.5	Yes	Hi-Z	5.5	Open-Drain/Push-Pull	SOT-23-8,XTDFN-1.4×1-8L	GPIO Level Shifter
1	SGM4554	100			1.2 ~ 5.0	1.65 ~ 5.5	Yes	Hi-Z	10	Push-Pull	SC70-6,UTDFN-1.45×1-6L	GPIO Level Shifter
1	SGM4555		2.7 ~ 5.5	1.4 ~ 5.5			Yes	Low			TQFN-2×2-12L,TQFN-3×3-16L	Card Interface
2	SGM4556	100			1.2 ~ 5.0	1.65 ~ 5.5	Yes	Hi-Z	10	Push-Pull	SOT-23-8,XTDFN-1.4×1-8L	GPIO Level Shifter
2	SGM4556YXET	100			1.2 ~ 5.0	1.65 ~ 5.5	Yes	Hi-Z		Push-Pull	XTDFN-1.35×1-8L	GPIO Level Shifter
2	SGM4558		2.7 ~ 5.5	1.4 ~ 5.5			Yes	Low	2		TQFN-3×3-20L	SIM/Smart Card Interface
1	SGM4560		3.3 ~ 5.5	1.6 ~ 5.5			Yes	Low	8		TSSOP-14	CA Card Interface
1	SGM4561		5.0 ~ 5.5	1.6 ~ 5.5			Yes	Low			MSOP-10	HDMI Interface
4	SGM4562A	140			0.9 ~ 3.6	0.9 ~ 3.6	Yes	Hi-Z	5		UTQFN-1.7×2-12L	4-Bit Bidirectional Level Shifter/Voltage Translator
4	SGM4563	100			1.2 ~ 5.5	1.65 ~ 5.5	No	Hi-Z	5	Push-Pull	SOIC-14,UTQFN-1.8×1.8-12L	SPI Bus or UART Interface
4	SGM4564	100			1.2 ~ 5.5	1.65 ~ 5.5	Yes	Hi-Z	12	Push-Pull	SOIC-14,UTQFN-1.8×1.8-12L,TQFN-2×2-12L	GPIO Level Shifter
1	SGM4565				1.08 ~ 1.98	1.62 ~ 3.6	Yes	Low	1	Open-Drain	UTQFN-1.8×1.4-10L,WLCSP-1.06×1.06-9B	SIM Card Interface Level Translator
1	SGM4565N				1.08 ~ 1.98	1.62 ~ 3.6	Yes	Low		Open-Drain	WLCSP-1.06×1.06-9B-A	SIM Card Interface Level Translator
6	SGM4566	100			1.2 ~ 5.5	1.65 ~ 5.5	Yes	Hi-Z	12	Push-Pull	TSSOP-16,TQFN-2.6×1.8-16L	GPIO Level Shifter
8	SGM4568	100			1.2 ~ 5.5	1.65 ~ 5.5	Yes	Hi-Z	12	Push-Pull	TSSOP-20,TQFN-3×3-20L	GPIO Level Shifter
4	SGM4570Q	24/2			1.65 ~ 3.6	2.3 ~ 5.5	Yes	Hi-Z		Open-Drain/Push-Pull	TSSOP-14	Automotive, Open-Drain, Dual-Supply Translating Transceiver
4	SGM4573	24/2			1.65 ~ 3.6	2.3 ~ 5.5	Yes	Hi-Z		Open-Drain/Push-Pull	TSSOP-14,TQFN-3.5×3.5-14AL	Open-Drain, Dual-Supply Translating Transceiver
4	SGM4574	24/2			1.65 ~ 5.5	2.3 ~ 5.5	Yes	Hi-Z	13	Open-Drain/Push-Pull	SOIC-14,UTQFN-1.8×1.8-12L,TQFN-2×2-12,TQFN-3.5×3.5-14AL	GPIO Level Shifter
6	SGM4576	24/2			1.65 ~ 5.5	2.3 ~ 5.5	Yes	Hi-Z	13	Open-Drain/Push-Pull	TQFN-2.6×1.8-16L	GPIO Level Shifter
8	SGM4578	24/2			1.65 ~ 5.5	2.3 ~ 5.5	Yes	Hi-Z	13	Open-Drain/Push-Pull	TSSOP-20,TQFN-3×3-20L	GPIO Level Shifter
15	SGM4590		2.5 ~ 5.5				No				TQFN-4×4-32L	GOA Panel 15-Channel Level Shifter
16	SGM4591Q		1.65 ~ 5.5				No			Open-Drain/Push-Pull	TSSOP-24	Automotive Low Voltage 16-Bit I ² C and SMBus Low-Power I/O Expander

Voltage Translator (Level Shifter)

Translators per Package	Part Number	Data Rate (Mbps)	V _{CC} (V)	V _L Range (V)	V _{CCA} Range (V)	V _{CCB} Range (V)	Bidirectional	V _{CC} Shutdown I/O State	Shutdown I _{CC} Max (μA)	Logic Output	Package	Features
4	SGM4T245				1.2 ~ 5.0	1.2 ~ 5.0	Yes	Hi-Z		Push-Pull	TSSOP-16,TQFN-2.6×1.8-16L	4-Bit Dual-Supply Translating Transceiver
4	SGM4T245S				1.2 ~ 5.5	1.2 ~ 5.5	Yes	Hi-Z		Push-Pull	TSSOP-16,TQFN-2.6×1.8-16L	4-Bit Dual-Supply Bus Transceiver
8	SGM8T245				1.2 ~ 5.0	1.2 ~ 5.0	Yes	Hi-Z		Push-Pull	TSSOP-24,TQFN-5.5×3.5-24L	8-Bit Dual-Supply Translating Transceiver
8	SGM8T245S				1.2 ~ 5.5	1.2 ~ 5.5	Yes	Hi-Z		Push-Pull	TSSOP-24,TQFN-5.5×3.5-24L	8-Bit Dual-Supply Bus Transceiver

Level Shifter and Driver

Channels per Package	Part Number	V _{IN} Range (V)	V _{CC} Range (V)	Logic Low Input Voltage (V)	Logic High Input Voltage (V)	Enable Voltage Range (V)	EN High Threshold (V _{ENH}) (V)	EN Low Threshold (V _{ENL}) (V)	Output Peak Current (A)	Rise Time (ns)	Fall Time (ns)	Shutdown I _{CC} Max (mA)	V _{CC} Shutdown I/O State (mA)	I _{CC} Typ (mA)	Package	Features
1	SGM4514		16 ~ 70	0.6	1.55					4	4			0.25	TQFN-4x4-16AL,TDFN-3x3-8BL,MSOP-8 (Exposed Pad)	High Voltage CMOS RF Antenna Switch Driver
2	SGM4546	1.8 ~ 5.5	4.5 ~ 26.5	0.7	1.6	0 ~ 5.5	2.1	0.6	2	12	13	0.24	Low	1.27	TSSOP-16 (Exposed Pad),TDFN-3x3-14L	Piezo-Sounder and Ultra-Sound Transducer Driver
2	SGM4547	2.5 ~ 20	4.5 ~ 26.5	0.7	1.6	0 ~ 5.5	2.1	0.6	2	12	13	0.24	Low	1.27	TDFN-3x3-14L	High SPL Piezo-Sounder Driver
2	SGM4548		4.5 ~ 26.5	0.7	1.6	0 ~ 5.5	2.1	0.6	2	12	13	0.24	Low	1.12	SOIC-8,TDFN-2x2-8L	High Speed, Dual Level Shifters and Drivers
2	SGM4549		4.5 ~ 26.5	0.7	1.6	0 ~ 5.5	2.1	0.6	2	12	13	0.24	Low	1.27	SOIC-8,TDFN-2x2-8L	High Speed, Dual Level Shifters and Drivers
2	SGM4550		4.5 ~ 26.5	0.7	1.6	0 ~ 5.5	2.1	0.6	2	12	13	0.24	Low	1.17	SOIC-8,TDFN-2x2-8L	High Speed, Dual Level Shifters and Drivers
2	SGM48000		4.5 ~ 26.5	0.7	1.6				2	12	13			1.14	SOIC-8,TDFN-2x2-8L	2A Peak Current, 26.5V, Dual Non-Inverting
2	SGM48001		4.5 ~ 26.5	0.7	1.6				2	12	13			1.29	SOIC-8,TDFN-2x2-8L	2A Peak Current, 26.5V, Dual Inverting
2	SGM48002		4.5 ~ 26.5	0.7	1.6				2	12	13			1.19	SOIC-8,TDFN-2x2-8L	2A Peak Current, 26.5V, Inverting and Non-Inverting

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Part Number	Package	Features
74AHC08	TSSOP-14,SOIC-14	Quad 2-Input AND Gate
74AHC123	SOIC-16,TSSOP-16	Dual Retriggerable Monostable Multivibrator with Reset
74AHC14	SOIC-14,TSSOP-14	Hex Inverter with Schmitt Trigger Inputs
74AHC1G08	SC70-5,SOT-23-5	Single 2-Input Positive-AND Gate
74AHC1G08Q	SC70-5,SOT-23-5	Automotive, Single 2-Input AND Gate
74AHC541	SOIC-20,TSSOP-20	Octal Buffer/Line Driver with 3-State Outputs

Part Number	Package	Features
74AHC573	SOIC-20,TSSOP-20	Octal Transparent D-Type Latch with 3-State Outputs
74AHC595	SOIC-16,TSSOP-16	8-Bit Serial-In/Serial-Out or Parallel-Out Shift Register with Output Latches
74AHCT244	SOIC-20,TSSOP-20	Octal Buffer/Line Driver with 3-State Outputs
74AHCT86	SOIC-14	Quad 2-Input Exclusive-OR Gate
74ALVC164245	TSSOP-48,SSOP-48	16-Bit Dual-Supply Translating Transceiver
74AUP1G00	SC70-5,SOT-23-5,XTDFN-1×1-6L	Low Power Single 2-Input Positive-NAND Gate

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Part Number	Package	Features
74AUP1G02	SC70-5,SOT-23-5,XTDFN-1×1-6L	Low Power Single 2-Input Positive-NOR Gate
74AUP1G04	SC70-5,SOT-23-5	Low Power Single Inverter Gate
74AUP1G09	SC70-5,XTDFN-1×1-6L	Low Power Single 2-Input AND Gate with Open-Drain Output
74AUP1G125	SC70-5,SOT-23-5,XTDFN-0.8×0.8-4AL	Low Power Buffer/Line Driver with 3-State Output
74AUP1G126	SC70-5,SOT-23-5,XTDFN-0.8×0.8-4AL	Low Power Buffer/Line Driver with 3-State Output
74AUP1G14	SC70-5,SOT-23-5,XTDFN-1×1-6L	Low Power Single Schmitt-Trigger Inverter
74AUP1G32	SC70-5,SOT-23-5,XTDFN-1×1-6L,XTDFN-0.8×0.8-4L	Low Power Single 2-Input Positive-OR Gate
74AUP1G34	SC70-5,SOT-23-5,XTDFN-1×1-6L,XTDFN-0.8×0.8-4L	Low Power Single Buffer
74AVC16T245	TSSOP-48	16-Bit Dual-Supply Translating Transceiver
74AVC4T245Q	TSSOP-16,TQFN-3.5×4-16L,TQFN-2.5×3.5-16L	Automotive, 4-Bit Dual-Supply Translating Transceiver
74AVC8T245	TSSOP-24,TQFN-5.5×3.5-24L	8-Bit Dual-Supply Translating Transceiver
74AXC1T45	SC70-6,SOT-23-6,SOT-563-6,XTDFN-1×1-6L	1-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation
74HC165	SOIC-16,TSSOP-16	8-Bit Parallel-Load Shift Register
74HC574	TSSOP-20,SOIC-20	Octal D-Type Positive Edge-Triggered Flip-Flop with 3-State Outputs
74HCT574	TSSOP-20,SOIC-20,SSOP-20	Octal D-Type Positive Edge-Triggered Flip-Flop with 3-State Outputs
74LV1T08	SOT-23-5,SC70-5	Single 2-Input Translating AND Gate
74LV1T34	SC70-5,SOT-23-5,XTDFN-0.8×0.8-4AL	Single-Supply Translating Buffer Gate
74LV541AT	TSSOP-20,TQFN-3.5×4.5-20AL	Octal Buffer/Line Driver with 3-State Outputs
74LVC04	SOIC-14,TSSOP-14	Hex Inverter
74LVC08	SOIC-14,TSSOP-14	Quad 2-Input AND Gate
74LVC138	SOIC-16,TSSOP-16,TQFN-2.5×3.5-16L	3-Line to 8-Line Inverting Decoder/Demultiplexer
74LVC157	SOIC-16,TSSOP-16,TQFN-2.5×3.5-16L	Quad 2-Input Multiplexer
74LVC1G00	SC70-5	Single 2-Input NAND Gate
74LVC1G02	SC70-5,SOT-23-5	Single 2-Input Positive NOR Gate
74LVC1G04	SC70-5,SOT-23-5,XTDFN-0.8×0.8-4AL,UTDFN-1.45×1-6AL	Single Inverter Gate
74LVC1G07	SC70-5,SOT-23-5,UTDFN-1.45×1-6AL	Single Buffer/Driver with Open-Drain Output
74LVC1G08	SC70-5,SOT-23-5	Single 2-Input Positive AND Gate
74LVC1G11	SC70-6,SOT-23-6,XTDFN-1×1-6L	Single 3-Input Positive AND Gate
74LVC1G125	SC70-5,SOT-23-5,XTDFN-1×1-6L,UTDFN-1.45×1-6AL	Bus Buffer/Line Driver with 3-State Output
74LVC1G14	SC70-5,SOT-23-5	Single Schmitt-Trigger Inverter
74LVC1G17	SC70-5,SOT-23-5	Single Schmitt-Trigger Buffer
74LVC1G32	SOT-23-5,SC70-5,XTDFN-0.8×0.8-4AL	Single 2-Input OR Gate

Part Number	Package	Features
74LVC1G32Q	SC70-5,SOT-23-5	Automotive, Single 2-Input OR Gate
74LVC1G57	SC70-6,UTDFN-1.45×1-6AL	Low Power Configurable Multiple Function Gate
74LVC1G74	VSSOP-8,XTDFN-1.4×1-8L,MSOP-8(S)	Single D-Type Positive Edge-Triggered Flip-Flop with Clear and Preset
74LVC1G86	SC70-5,SOT-23-5	Single 2-Input Exclusive-OR Gate
74LVC1T45	SC70-6,SOT-23-6	Single-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation
74LVC245A	SOIC-20,SSOP-20,TSSOP-20	Octal Bus Transceiver with 3-State Outputs
74LVC2G04	SOT-23-6,SC70-6	Dual Inverter
74LVC2G08	VSSOP-8	Dual 2-Input AND Gate
74LVC2G125	VSSOP-8,MSOP-8(S)	Dual Bus Buffer/Line Driver with 3-State Outputs
74LVC2G14	SC70-6	Dual Inverter with 5V Tolerant Schmitt Trigger Inputs
74LVC2G17	SC70-6,SOT-23-6,XTDFN-1×1-6L,UTDFN-1.45×1-6AL	Dual Buffer with Schmitt-Trigger
74LVC2T45	MSOP-8,XTDFN-1.35×1-8L	2-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation
74LVC32	SOIC-14,TSSOP-14	Quad 2-Input OR Gate
74LVC373A	SOIC-20,TSSOP-20	Octal D-Type Transparent Latch with 3-State Outputs
74LVC374A	SOIC-20,TSSOP-20	Octal D-Type Positive Edge-Triggered Flip-Flop with 3-State Outputs
74LVC540A	TSSOP-20	Octal Buffer/Line Driver with 5V Tolerant Inputs/Outputs
74LVC541A	TSSOP-20	Octal Buffer/Line Driver with 5V Tolerant Inputs/Outputs
74LVC74	TSSOP-14	Dual D-Type Positive Edge-Triggered Flip-Flop with Set and Reset
74LVCM16373	TSSOP-48	16-Bit D-Type Transparent Latch with 3-State Outputs
74LVCM244	SOIC-20,TSSOP-20,SSOP-20	Octal Buffer/Line Driver with 3-State Outputs
74LVT245B	TSSOP-20,SOIC-20,SSOP-20	3.3V Octal Transceiver with 3-State Outputs
74LVTH125	SOIC-14	3.3V, Quad Buffer/Line Driver with 3-State Outputs
74LVTH16244	TSSOP-48	3.3V, 16-Bit Buffer/Line Driver with 3-State Outputs
74LVTH16373	TSSOP-48	3.3V, 16-Bit D-Type Transparent Latch with 3-State Outputs
74LVTH245	TQFN-4.5×2.5-20L,SSOP-20,TSSOP-20	3.3V, Octal Transceiver with Direction Pin and 3-State Outputs
74LVTN16244	TSSOP-48	3.3V, 16-Bit Buffer/Line Driver with 3-State Outputs
74LVTN16245	TSSOP-48	3.3V, 16-Bit Transceiver with Direction Pin and 3-State Outputs
74LVTN16374	TSSOP-48	3.3V, 16-Bit D-Type Edge-Triggered Flip-Flop with 3-State Outputs
SGM4T245	TSSOP-16,TQFN-2.6×1.8-16L	4-Bit Dual-Supply Translating Transceiver
SGM4T245S	TSSOP-16,TQFN-2.6×1.8-16L	4-Bit Dual-Supply Bus Transceiver
SGM7SZ00	SOT-23-5,SC70-5	Single 2-Input NAND Gate
SGM7SZ04	SOT-23-5,SC70-5,UTDFN-1.45×1-6L	Single Inverter

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Part Number	Package	Features
SGM7SZ08	XTDFN-1×1-6L,SOT-23-5,SC70-5,UTDFN-1.45×1-6L	Single 2-Input AND Gate
SGM7SZ125	SOT-23-5,SC70-5	Single Active-Low 3-State Logic Buffer
SGM7SZ126	SOT-23-5,SC70-5	Single Active-High 3-State Logic Buffer
SGM7SZ14	SOT-23-5,SC70-5	Single Inverter with Schmitt Trigger Input
SGM7SZ19	SC70-6	Single 1-of-2 Decoder/Demultiplexer
SGM7SZ244	TSSOP-20	Octal Buffer/Line Driver with 3-State Outputs

Part Number	Package	Features
SGM7SZ244S	TSSOP-20,TQFN-3×3-20L,TQFN-5.5×3.5-24L	Octal Buffer/Line Driver with 3-State Outputs
SGM7SZ245	TSSOP-20,TQFN-5.5×3.5-24L,TQFN-3×3-20L	Octal Bus Transceiver with 3-State Outputs
SGM7SZ245S	TSSOP-20,TQFN-3×3-20L,TQFN-5.5×3.5-24L	Octal Bus Transceiver with 3-State Outputs
SGM7SZ32	SOT-23-5,SC70-5	Single 2-Input OR Gate
SGM7SZ86	SOT-23-5,SC70-5	Single 2-Input Exclusive-OR Gate
SGM8T245	TSSOP-24,TQFN-5.5×3.5-24L	8-Bit Dual-Supply Translating Transceiver

Temperature Sensor

Device Type	Part Number	Interface	V _{CC} (V)	Temp Resolution Max (Bits)	Local Sensor Accuracy Max (±°C)	Shutdown Current (μA)	Addresses	Quiescent Current (μA)	Operating Temperature Range (°C)	Remote Channels (#)	Package	Features
Local and Remote	SGM446	Analog Output	4 ~ 35		-5 ~ 2			298.2	-55 to +150	0	UTDFN-2×2-2L,UTDFN-2×2-4L	2-Terminal, High-Precision, Current Output Temperature Sensor
Local	SGM447	Analog Output	1.5 ~ 5.5		-20°C to +85°C: 2.5 -55°C to +150°C: 3.5			3	-55 to +150	0	WLCSP-0.8×0.8-4B-A	Dual-Gain Analog Temperature Sensor with Class-AB Output
Local and Remote	SGM448	Analog Output	2.7 ~ 10		+25°C: 1 -55°C to +125°C: 2			26	-55 to +150	0	SOT-23	Low Power, High Accuracy Analog Output Temperature Sensor
Local and Remote	SGM449	Analog Output	2.7 ~ 10		+25°C: 1 -55°C to +125°C: 2			26	-55 to +150	0	SOT-23	Low Power, High Accuracy Analog Output Temperature Sensor
Local	SGM450	Analog Output	2.3 ~ 5.5		2			7.5	-40 to +150	0	SC70-5,SOT-23	Low Power, High Accuracy Analog Output Temperature Sensor
Local and Remote	SGM451	I ² C and SMBus	3.0 ~ 5.5	12	-40°C to +85°C: 0.8 -40°C to +125°C: 1.2	<10	8	122	-40 to +125	1	TDFN-2×2-8BL	±1°C Local and Remote Temperature Sensor with η-Factor and Offset Correction, Series-Resistance Cancellation, and Programmable Digital Filter
Local	SGM452	I ² C	2.7 ~ 5.5	12	-40°C to +85°C: 1 -55°C to +125°C: 1.2	<3	8	49	-55 to +125	0	SOIC-8,MSOP-8	Digital Temperature Sensor and Thermal Watchdog with I ² C Interface
Local	SGM452B	I ² C	2.7 ~ 5.5	12	-55°C to +125°C: 1.2	<3	8	49	-55 to +125	0	SOIC-8,MSOP-8	Digital Temperature Sensor and Thermal Watchdog with I ² C Interface
Local	SGM457	I ² C	1.6 ~ 5.5	12	2	<2.5	8	14	-40 to +125	0	SOT-563-6	Low Power, Low Supply Voltage Digital Temperature Sensor
Local	SGM458	I ² C and SMBus	1.6 ~ 5.5	12	1	<2.5	8	2.9	-55 to +125	0	WLCSP-0.85×0.85-4B	Low Power, Low Supply Voltage Digital Temperature Sensor
Local	SGM459	I ² C	2.7 ~ 5.5	12	1.2	<3	8	49	-55 to +125	0	TDFN-2×2-8AL	Digital Temperature Sensor and Thermal Watchdog with I ² C Interface
Local	SGM460	I ² C and SMBus	1.6 ~ 5.5	12	0.75	<1	8	3.2	-40 to +125	0	WLCSP-0.77×1.17-6B	Low Power, Digital Temperature Sensor with Two-Wire Serial Interface

Multi-Switch Detection Interface (MSDI) IC

Part Number	Number of Input Channels	Operating Voltage Min (V)	Operating Voltage Max (V)	Input/Output Voltage Min (V)	Input/Output Voltage Max (V)	I _O Current (mA)	Operating Temperature Range (°C)	Package	Features
SGMCD1020Q	22	6	36	3	5.25	16	-40 to +125	TQFN-5×5-32GL	Automotive, SPI Control

ESD Protection IC

Channel	Part Number	Configuration	V _{RWM} Max (V)	I _{PPM} Max (A)	C _{IN} Typ (pF)	Package	Features
1	SGM05CB1A4	Bidirectional	5	4	2.7	UTDFN-1×0.6-2L,XTDFN-0.6×0.3-2L	Low Capacitance, 1-Channel ESD Protection
1	SGM05CB1A7	Bidirectional	5	7	9	X4DFN-0.63×0.33-2L	Low Capacitance, 1-Channel ESD Protection
1	SGM05CB1A8	Bidirectional	5	8.5	9.6	UTDFN-1×0.6-2L	Low Capacitance, 1-Channel ESD Protection
1	SGM05FB1E2	Bidirectional	5	2.4	0.3	UTDFN-1×0.6-2L,XTDFN-0.6×0.3-2L	Femto-Farad Capacitance, 1-Channel ESD Protection
2	SGM05FB2E2	Bidirectional	5	2.5	0.3	UTDFN-1×0.6-3L	Femto-Farad Capacitance, 2-Channel ESD Protection
4	SGM05FB4D2	Unidirectional	5	2.4	0.3	UTDFN-2.5×1-10AL	Ultra-Low Capacitance 4-Channel ESD Protection
8	SGM05FB8D2	Unidirectional	5	2.4	0.3	UTDFN-5.5×1.5-18L	Femto-Farad Capacitance 8-Channel ESD Protection
1	SGM05HB1AM	Bidirectional	4.8/5.5	30	36	UTDFN-1×0.6-2AL	5V Bidirectional ESD and Surge Protection Device
1	SGM05HU1AL	Bidirectional	5.5	43	100	UTDFN-1×0.6-2BL	5.5V Unidirectional ESD and Surge Protection Device
1	SGM05UB1B3	Bidirectional	5	4.2	0.5	UTDFN-1×0.6-2L,XTDFN-0.6×0.3-2L	Ultra-Low Capacitance, 1-Channel ESD Protection
2	SGM05UU2A3	Unidirectional	5	4	0.7	UTDFN-1×0.6-3L	Ultra-Low Capacitance 2-Channel ESD Protection
4	SGM05UU4A3	Unidirectional	5	4	0.7	UTDFN-2.5×1-10AL	Ultra-Low Capacitance 4-Channel ESD Protection
1	SGM12CB1A5	Bidirectional	12	5	1	UTDFN-1×0.6-2L	Low Capacitance, 1-Channel ESD Protection
1	SGM12UB1D2	Bidirectional	12	2	0.35	UTDFN-1×0.6-2L,XTDFN-0.6×0.3-2L	Ultra-Low Capacitance, 1-Channel ESD Protection
1	SGM15CB1A4	Bidirectional	15	4	1	UTDFN-1×0.6-2L	Low Capacitance, 1-Channel ESD Protection
1	SGM15FB1E2	Bidirectional	15	2.2	0.15	UTDFN-1×0.6-2L	Femto-Farad Capacitance, 1-Channel ESD Protection
1	SGM15UB1E2	Bidirectional	15	2.2	0.15	UTDFN-1×0.6-2L,XTDFN-0.6×0.3-2L	Ultra-Low Capacitance, 1-Channel ESD Protection
1	SGM18CB1B3	Bidirectional	18	3.5	1	UTDFN-1×0.6-2L	1-Channel Low Capacitance ESD Protection
1	SGM18UB1E1	Bidirectional	18		0.35	UTDFN-1×0.6-2L	Ultra-Low Capacitance, 1-Channel ESD Protection

General Purpose TVS IC

Channel	Part Number	Configuration	V _{RWM} Max (V)	I _{PPM} Max (A)	C _{IN} Typ (pF)	Package	Features
1	SGM05HU1AW	Unidirectional	5	200	550	UTDFN-1.6×1-2L	5V Unidirectional ESD and Surge Protection Device

RF Switch

Part Number	Type of Switch	V _{CC} (V)	Frequency Min (GHz)	Frequency Max (GHz)	Insertion Loss @2.7GHz Typ (dB)	P _{0.1dB} Typ (dBm)	Isolation @2.7GHz Typ (dB)	Operating Temperature Range (°C)	Package	Features
SGM11102F	SPDT	2.4 ~ 3	0.1	6	0.4	33	28	-40 to +85	UTDFN-1.1×0.7-6L	High Linearity SPDT RF Switch
SGM11102G	SPDT	1.65 ~ 3.3	0.1	5.8	0.3	39	30	-40 to +90	XTDFN-1.1×0.7-6L	SPDT Switch for High Power Applications
SGM11102S	SPDT	2.5 ~ 3.3	0.1	5.8	0.6	27	55	-40 to +85	ULGA-1×1-6L	High Isolation SPDT RF Switch
SGM11102W	SPDT	1.65 ~ 3.3	0.1	3.8	0.46	38	29	-40 to +105	SC70-6	SPDT Switch for High Power Applications
SGM11103E	SP3T	2.5 ~ 3.4	0.1	3	0.65	36.5	25	-40 to +85	ULGA-1.1×1.1-9L	SP3T High Power RF Switch
SGM11103F	SP3T	2.4 ~ 3	0.1	6	0.5	27	25	-40 to +85	UTQFN-1.1×1.1-9L	High Linearity SP3T RF Switch
SGM11103S	SP3T	2.5 ~ 3.3	0.1	5.8	0.56	30	50	-40 to +85	ULGA-1.15×1.55-10L	High Isolation SP3T RF Switch
SGM11104S	SP4T	2.5 ~ 3.3	0.1	5.8	0.49	30	46	-40 to +85	ULGA-1.6×1.6-14L	High Isolation SP4T RF Switch
SGM11106C	SP6T	2.4 ~ 4.8	0.1	3	0.65	27	20	-40 to +85	UTQFN-2×2-14L	SP6T LTE Switch with MIPI RFFE Interface
SGM11108E	SP8T	2.5 ~ 3.4	0.1	3	0.53	37.5	30	-40 to +85	UTQFN-2×2-14L	SP8T High Power RF Switch
SGM11108M	SP8T	2.4 ~ 4.8	0.1	3	0.65	27	30	-40 to +85	UTQFN-2×2-14AL	SP8T Switch with MIPI RFFE Interface
SGM11110M	SP10T	2.4 ~ 4.8	0.1	3	0.6	26	33	-40 to +85	UTQFN-2.4×2.4-20L	SP10T Switch with MIPI RFFE Interface
SGM11112M	SP12T	2.4 ~ 4.8	0.1	3	0.75	26	31	-40 to +85	UTQFN-2.5×2.5-20L	SP12T Switch with MIPI RFFE Interface
SGM11124E	SP4T	2.5 ~ 3.4	0.1	3	0.62	36.5	27	-40 to +85	ULGA-1.1×1.1-9L	SP4T High Power RF Switch
SGM11124F	SP4T	2.4 ~ 3	0.1	6	0.4	27	25	-40 to +85	ULGA-1.1×1.1-9L	High Linearity SP4T RF Switch
SGM11210A	DP10T	2.4 ~ 4.8	0.1	3.8	0.6	25	26	-40 to +85	ULGA-2.4×2-18L	DP10T Diversity Switch with MIPI RFFE for Carrier Aggregation
SGM11210M	DP10T	2.4 ~ 4.8	0.1	3.8	0.6	25	26	-40 to +85	ULGA-2.4×2-18L	DP10T Diversity Switch with MIPI RFFE for Carrier Aggregation
SGM11212M	DP12T	2.4 ~ 4.8	0.1	3.8	0.6	25	28	-40 to +85	ULGA-2.4×2-18L	DP12T Diversity Switch with MIPI RFFE for Carrier Aggregation
SGM12024A	DP4T	1.65 ~ 1.95	0.4	5	0.64	38	41	-40 to +85	UTQFN-2×2-16AL	0.4GHz to 5.0GHz, DP4T Switch with MIPI RFFE Interface
SGM12033A	3P3T	1.65 ~ 1.95	0.4	5.8	0.72	38	41	-40 to +85	ULGA-2×2-16AL	0.4GHz to 5.8GHz, 3P3T Switch with MIPI RFFE Interface
SGM12213A	SP3T	1.65 ~ 1.95	0.4	5.8	0.48	40	30	-40 to +85	ULGA-1.1×1.1-9L	SP3T MIPI RFFE High Power Switch
SGM12214A	SP4T	1.65 ~ 1.95	0.4	5.8	0.47	40	30	-40 to +85	ULGA-1.1×1.1-9L	SP4T MIPI RFFE High Power Switch
SGM21102A	SPDT	2.4 ~ 3.3	0.7	6	0.39	30	28	-40 to +85	ULGA-0.7×1.1-6L	0.7GHz to 6.0GHz SPDT Switch
SGM21102B	SPDT	2.4 ~ 3.0	0.3	6	0.39	30	25	-40 to +105	XTDFN-1×1-6AL	0.3GHz to 6.0GHz SPDT Switch
SGM21102C	SPDT	1.8 ~ 5	0.02	6	0.20 @0.9GHz	33	26 @3GHz	-40 to +105	ULGA-1×1-6BL	20MHz to 6.0GHz SPDT Switch
SGM21102G	SPDT	1.8 ~ 5	0.02	4	0.17 @0.9GHz	30	24 @3GHz	-40 to +105	SC70-6	20MHz to 4.0GHz SPDT Switch
SGM72002	SPDT	2.2 ~ 3	0.1	3	0.4	33	28	-40 to +85	UTDFN-1.1×0.7-6L	High Linearity SPDT RF Switch
SGM72003	SP3T	2.4 ~ 3	0.1	3	0.5	27	25	-40 to +85	UTQFN-1.1×1.1-9L	High Linearity SP3T RF Switch
SGM72004A	SP4T	2.4 ~ 3	0.1	3	0.4	27	25	-40 to +85	ULGA-1.1×1.1-9L	High Linearity SP4T RF Switch
SGM72004B	SP4T	2.4 ~ 3.4	0.1	3	0.6	30	25	-40 to +105	UTQFN-2×2-14L	SP4T Diversity RF Switch
SGM72006	SP6T	2.4 ~ 3.4	0.1	3	0.6	30	25	-40 to +85	UTQFN-2×2-14L	SP6T Diversity RF Switch

RF Switch

Part Number	Type of Switch	V _{CC} (V)	Frequency Min (GHz)	Frequency Max (GHz)	Insertion Loss @2.7GHz Typ (dB)	P _{0.1dB} Typ (dBm)	Isolation @2.7GHz Typ (dB)	Operating Temperature Range (°C)	Package	Features
SGM72008	SP8T	2.4 ~ 3.4	0.1	3	0.6	30	25	-40 to +85	UTQFN-2×2-14L	SP8T Diversity RF Switch
SGM72022A	DPDT	1.7 ~ 3.3	0.4	5.8	0.34	38	22	-40 to +85	ULGA-1.1×1.5-10L	General Purpose DPDT Transfer Switch
SGM72106	SP6T	2.4 ~ 4.8	0.1	3	0.65	27	30	-40 to +85	UTQFN-2×2-14AL	SP6T LTE Switch with MIPI RFFE Interface
SGM72108	SP8T	2.4 ~ 4.8	0.1	3	0.65	27	30	-40 to +85	UTQFN-2×2-14AL	SP8T LTE Switch with MIPI RFFE Interface
SGM72110	SP10T	2.4 ~ 4.8	0.1	3	0.6	26	33	-40 to +85	UTQFN-2.4×2.4-20L	SP10T LTE Switch with MIPI RFFE Interface
SGM72112A	SP12T	2.4 ~ 4.8	0.1	3	0.75	26	31	-40 to +85	UTQFN-2.5×2.5-20L	SP12T LTE Switch with MIPI RFFE Interface
SGM72112B	DP12T	2.4 ~ 4.8	0.1	3.8	0.6	25	27	-40 to +85	ULGA-2.4×2-18L	DP12T Diversity Switch with MIPI RFFE for Carrier Aggregation
SGM72322A	DPDT	1.7 ~ 3.3	0.4	3.8	0.64	39	23	-40 to +85	UTQFN-2×2-12AL	General Purpose DPDT Transfer Switch

RF PA

Part Number	Type of PA	V _{CC} (V)	Frequency Min (MHz)	Frequency Max (MHz)	Gain Typ (dB)	P1dB Typ (dBm)	I _{CC} Typ (mA)	Operating Temperature Range (°C)	Package	Features
SGM22001A	FEM	3.0 ~ 4.6	2400	2500	18	32	210	-40 to +85	TLGA-2×2.4-18L	2.4GHz, 802.11n WiFi Front-End Module
SGM33685A	Sub-1G PA	3.3 and 5	900	930	31	31	650	-40 to +105	TQFN-3×3-16L	900MHz to 930MHz High Linearity Power Amplifier
SGM33685B	Sub-1G PA	3.3 and 5	746	756	33	30	620	-40 to +105	TQFN-3×3-16L	746MHz to 756MHz High Linearity Power Amplifier
SGM33685C	Sub-1G PA	3.3 and 5	350	400	34	31.5	757	-40 to +105	TQFN-3×3-16L	350MHz to 510MHz High Linearity Power Amplifier
			450	460	37	33	580			
			470	510	36	32	590			

RF Tuner

Part Number	Type of Tuning Switch	V _{CC} (V)	Frequency Min (GHz)	Frequency Max (GHz)	R _{ON} Typ (Ω)	V _{PEAK} Typ (V)	C _{OFF} Typ (fF)	Operating Temperature Range (°C)	Package	Features
SGM72204A	SP4T	2.4 ~ 4.5	0.1	2.7	1	45	130	-40 to +85	UTQFN-1.1×1.5-10L	SP4T Antenna Tuning Switch

RF LNA

Part Number	Type of LNA	V _{CC} (V)	Frequency Min (MHz)	Frequency Max (MHz)	Gain Typ (dB)	Noise Figure Typ (dB)	I _{VDD} Typ (mA)	Operating Temperature Range (°C)	Package	Features
SGM13001A	GNSS LNA	1.6 ~ 3.6	1160 1550	1300 1615	19.2 18.2	0.78 0.90	6.5	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier for GNSS
SGM13001B	GNSS LNA	1.6 ~ 3.6	1550	1615	18.3	0.9	6.5	-40 to +85	UTDFN-1.1×0.9-6L	Low Noise Amplifier for GNSS
SGM13001C	GNSS LNA	1.6 ~ 3.6	1550	1615	19.1	0.83	6.4	-40 to +85	UTDFN-1.5×1.0-6AL	Low Noise Amplifier for GNSS
SGM13002A	GNSS LNA	1.5 ~ 3.6	1160 1550	1300 1615	17.8 17.4	0.71 0.78	5.2	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier for GNSS
SGM13003A	GNSS LNA	1.5 ~ 3.6	1160 1550	1300 1615	17.0 17.4	0.96 1.00	2.2	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier for GNSS
SGM13005H1	LTE LNA	1.5 ~ 3.6	2300	2700	13.7	1.1	6.1	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier for LTE High Band
SGM13005H2	LTE LNA	1.5 ~ 3.6	2300	2700	13.7	1.1	6	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier with Bypass Switch for LTE High Band
SGM13005H4	LTE LNA	1.5 ~ 3.6	2300	2700	18.7	0.9	15	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier with Bypass Switch for LTE High Band
SGM13005L4	LTE LNA	1.5 ~ 3.6	700	960	21.4	0.75	10.5	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier with Bypass Switch for LTE Low Band
SGM13005M1	LTE LNA	1.5 ~ 3.6	1800	2200	14.3	1	5.8	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier for LTE Middle Band
SGM13005M2	LTE LNA	1.5 ~ 3.6	1800	2200	14.1	1	5.8	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier with Bypass Switch for LTE Middle Band
SGM13005M4	LTE LNA	1.5 ~ 3.6	1800 1550	2200 1615	19.4 19.9	0.9 0.8	11.8	-40 to +85	UTDFN-1.1×0.7-6L	Low Noise Amplifier with Bypass Switch for LTE Middle Band and GNSS L1 Band

Watchdog and Timer

Part Number	Supply Current (μA)	Manual Reset	V _{CC} (V)	Reset Threshold (V)	Watchdog Timer	V _{CC} to Reset Delay (μs)	Reset Active Timeout Period (ms)	Reset Output	Package	Features
SGM706B	0.6	Yes	1.0 ~ 5.5	4.63,4.38,4.0,3.08,2.93,2.63	1.6s		200	Active Low (Push-Pull)	UTDFN-1.5×1.5-8L,SOIC-8,MSOP-8	6 Selectable Thresholds, Watchdog, Debounced Manual-Reset Input
SGM816	1.6	Yes	1.0 ~ 5.0	3.3,1.5,1.2	1.2s	50	140	Active Low (Push-Pull)	SOT-23-6	3 Selectable Thresholds, Watchdog, Manual-Reset Input, Low Power
SGM820	1.2	Yes	1.6 ~ 6.5	4.8,4.65,3.168,3.069,2.88,2.79,2.4,2.325,1.728,1.674	Programmable	90	200	Active Low (Open-Drain)	TDFN-3×3-8L,TDFN-2×2-8L	10 Selectable Thresholds, Watchdog, Manual-Reset Input
SGM820xQ	1.2	Yes	1.6 ~ 6.5	4.650,3.069,2.325,1.647	Programmable	90	200	Active Low (Open-Drain)	TDFN-3×3-8GL,TDFN-2×2-8DL	Automotive, 4 Selectable Thresholds, Watchdog, Manual-Reset Input
SGM821	0.035	Yes	1.8 ~ 5.5		Programmable			Active Low (Open-Drain)	SOT-23-6,TDFN-2×2-6AL	Programmable Watchdog Intervals, Watchdog, Manual-Reset Input
SGM823	0.5	Yes	1.0 ~ 5.5	4.63,3.08,2.93,2.63	1.6s	84	200	Active Low (Push-Pull)	SOT-23-5	4 Selectable Thresholds, Watchdog, Manual-Reset Input
SGM823A	0.64	Yes	1.0 ~ 5.5	2.19,1.67,1.58	1.6s	90	200	Active Low (Push-Pull)	SOT-23-5	3 Selectable Thresholds, Watchdog, Manual-Reset Input
SGM824	0.5	No	1.0 ~ 5.5	4.63,3.08,2.93,2.63	1.6s	84	200	Active Low/High (Push-Pull)	SOT-23-5	4 Selectable Thresholds, Watchdog
SGM817xQ	0.5	Yes	1.0 ~ 5.5	4.66,3.10,2.95,2.64	200ms	90	25	Active Low (Push-Pull)	SOT-23-5	Automotive, 4 Selectable Thresholds, Watchdog, Manual-Reset Input
SGM819S	3.5	No	1.7 ~ 5.5		3.4ms,6.8ms,108.8ms,1.7s,7.0s,27.9s			Active Low (Open-Drain)	SOT-23-5	Watchdog Timer
SGM819SxQ	3.5	No	1.7 ~ 5.5		3.4ms,6.8ms,108.8ms,1.7s,7.0s,27.9s			Active Low (Open-Drain)	SOT-23-5	Automotive Watchdog Timer
SGM823xQ	0.5	Yes	1.0 ~ 5.5	4.66,3.10,2.95,2.64	1.6s	90	200	Active Low (Push-Pull)	SOT-23-5	Automotive, 4 Selectable Thresholds, Watchdog, Manual-Reset Input

Reset IC

Part Number	Supply Current (μA)	Manual Reset	V _{CC} (V)	Reset Threshold (V)	V _{CC} to Reset Delay (μs)	Reset Active Timeout Period (ms)	Reset Output	Package	Features
SGM708	20	Yes	1.0 ~ 5.5	4.65,4.4,4.0,3.08,2.93,2.63		200	Active Low/High (Push-Pull)	SOIC-8	6 Selectable Thresholds, Debounced Manual-Reset Input, Dual Reset Outputs
SGM800	3	No	1.0 ~ 5.5	2.93,2.63,2.32,1.63	80	Programmable	Active Low (Open-Drain)	SOT-23-5	Programmable Reset Timeout, Low Quiescent Current
SGM802	3	No	1.0 ~ 5.5	2.93,2.63,2.32,1.63	80	Programmable	Active High (Push-Pull)	SC70-4 (R),SOT-143	Programmable Reset Timeout, Low Quiescent Current, Small Package
SGM803B	0.3	No	1.0 ~ 5.5	4.38,4.00,3.08,2.93,2.63	110	240	Active Low (Open-Drain)	SOT-23-3,SOT-23	5 Selectable Thresholds, Low Power
SGM804	3	No	1.0 ~ 5.5	2.93,2.63,2.32,1.63	80	Programmable	Active Low (Push-Pull)	SOT-23-5	Programmable Reset Timeout, Low Quiescent Current
SGM809B	0.3	No	1.0 ~ 5.5	4.38,4.00,3.08,2.93,2.63	110	240	Active Low (Push-Pull)	SOT-23-3,SOT-23	5 Selectable Thresholds, Low Power
SGM810B	0.3	No	1.0 ~ 5.5	4.38,4.00,3.08,2.93,2.63	110	240	Active High (Push-Pull)	SOT-23-3,SOT-23	5 Selectable Thresholds, Low Power
SGM811	13	Yes	1.0 ~ 5.5	4.63,4.38,4.00,3.08,2.93,2.63,2.32,1.63	20	240	Active Low (Push-Pull)	SOT-143,SOT-23-5	8 Selectable Thresholds, Low Power
SGM811B	0.5	Yes	1.0 ~ 5.5	3.08,2.93,2.63	84	200	Active Low (Push-Pull)	SOT-143	3 Selectable Thresholds, Manual-Reset Input, Low Power
SGM811C	0.6	Yes	1.0 ~ 5.5	4.43,4.05,3.09,2.93,2.63,2.33,1.67	100	200	Active Low (Push-Pull)	SOT-143	6 Selectable Thresholds, Manual-Reset Input, Low Power
SGM812	13	Yes	1.0 ~ 5.5	4.63,4.38,4.00,3.08,2.93,2.63,2.32	20	240	Active High (Push-Pull)	SOT-143,SOT-23-5	7 Selectable Thresholds, Low Power
SGM812B	0.5	Yes	1.0 ~ 5.5	3.08,2.93,2.63	84	200	Active High (Push-Pull)	SOT-143	3 Selectable Thresholds, Manual-Reset Input, Low Power
SGM814	1.6	Yes	1.0 ~ 5.0	1.2,1.5,2.0,3.3	50	140	Active Low (Open-Drain)	SOT-23-6	4 Selectable Thresholds, Watchdog, Manual-Reset Input, Low Power
SGM815	1.6	Yes	1.0 ~ 5.0	1.6,3.3	50	140	Active Low (Open-Drain)	SOT-23-6	2 Selectable Thresholds, Watchdog, Manual-Reset Input, Low Power
SGM818	1	No	0.9 ~ 6	1.2 ~ 5.0 (0.1V Increments)	37	0.8,51,208,409	Active Low/High (Open-Drain)	SOT-23-3	Adjustable Delay Time, 4 Reset Timeout Period, Low Power
SGM818xQ	1	No	1.0 ~ 6.0	1.6,2.9	37	7,50	Active Low (Open-Drain)	SOT-23-3	Automotive, Micro-Power Voltage Detector
SGM818Y	1	No	0.9 ~ 6.0	1.6,2.9	37	6.6	Active Low (Open-Drain)	SOT-23-3,UTDFN-1×1-4L	Micro-Power Voltage Detector
SGM825	0.5	Yes	1.0 ~ 5.5	4.63,3.08,2.93,2.63	84	200	Active Low/High (Push-Pull)	SOT-23-5	4 Selectable Thresholds, Manual-Reset Input
SGM829	0.6	Yes	1.65 ~ 6.5	1.8 ~ 5.0	85	Programmable	Active Low (Open-Drain)	SOT-23-5	Adjustable Delay Time, Manual-Reset Input, Low Quiescent Current
SGM836	0.6	Yes	1.65 ~ 6.5	0.9 ~ 5.0/Adj (down to 0.4)	28	Programmable	Active Low (Open-Drain)	SOT-23-6,TDFN-2×2-6AL	Adjustable Delay Time, Manual-Reset Input, Low Quiescent Current
SGM836xQ	0.6	Yes	1.65 ~ 6.5	3.3,1.8/Adj (down to 0.4)	29	Programmable	Active Low (Open-Drain)	SOT-23-6,TDFN-2×2-6GL	Automotive Adjustable Delay Time, Manual-Reset Input, Low Quiescent Current
SGM851	0.05	No	1.6 ~ 6.5		0s,7.5s,12.5s	80400	Active Low (Open-Drain)	UTDFN-1.45×1-6AL	Low-Power, Push-Button Controller with Configurable Delay
SGM853	0.3	No	1.7 ~ 5.5		8s	12500	Active High (Push-Pull)	UTQFN-1.6×1.6-12AL	Low Power, Dual Voltage Detector

Voltage Detector

Part Number	Supply Current (μA)	Manual Reset	V _{CC} (V)	Reset Threshold (V)	V _{CC} to Reset Delay (μs)	Reset Active Timeout Period (ms)	Reset Output	Package	Features
SGM790A	0.3	No	2.5 ~ 5.5					UTDFN-1.2×1.2-6L	Low Current, Dual Load Attach/Detach Detection, 1.3s Wake-Up Output
SGM790B	0.3	No	2.5 ~ 5.5					UTDFN-1.2×1.2-6L	Low Current, Dual Load Attach/Detach Detection, Open-Drain Flag Output

Voltage Detector

Part Number	Supply Current (μA)	Manual Reset	V _{CC} (V)	Reset Threshold (V)	V _{CC} to Reset Delay (μs)	Reset Active Timeout Period (ms)	Reset Output	Package	Features
SGM790C	0.3	No	2.5 ~ 5.5					UTDFN-1.2×1.2-6L	Low Current, Dual Load Attach/Detach Detection, 1.3s Wake-Up Output
SGM808B	1	No	0.95 ~ 10	1.5 ~ 6.0 (0.1V Increments)			Active Low (Open-Drain)	SC70-4 (R),SOT-23-5,SOT-89-3	1.5V to 6.0V Selectable Thresholds, Low Power
SGM813B	0.6	No	1.0 ~ 6.0	1.4		22	Active Low (Open-Drain)	TDFN-2×2-6L	1.4V Fixed Threshold, Low Quiescent Current
SGM826B	1	No	0.95 ~ 10	2.2 ~ 6.0 (0.1V Increments)			Active Low (Open-Drain)	SC70-4 (R),SOT-23-5	2.2V to 6.0V Selectable Thresholds, Low Power
SGM827B	1	No	0.95 ~ 10	2.2 ~ 6.0 (0.1V Increments)			Active Low (Open-Drain)	SC70-4 (R),SOT-23-5	2.2V to 6.0V Selectable Thresholds, Low Power
SGM828B	1	No	0.95 ~ 10	2.2 ~ 6.0 (0.1V Increments)			Active Low (Open-Drain)	SC70-4 (R),SOT-23-5	2.2V to 6.0V Selectable Thresholds, Low Power
SGM860	6	Yes	1.8 ~ 6.5	Adj (down to 0.4)		21315	Active Low/High (Open-Drain)	TQFN-4×4-20BL	Adjustable Input Delay Time, Low Power
SGM861	1.24	Yes	1.7 ~ 5.5	0.5 ~ 1.3 (0.05V Increments), 1.5, 1.8, 2.5, 2.8, 2.9, 3.3, 5	20	Programmable	Active Low (Open-Drain)	TDFN-1.5×1.5-6L	High Accuracy OV/UV Detection Reset IC
SGM862	1.1	No	1.65 ~ 6.5	1.175, 1.169, 1.121, 1.062			Active Low (Open-Drain)	UTDFN-1.45×1.6AL,SOT-23-6	Dual Channel, Low Power, High Accuracy
SGM880	2.3, 3.0	No	1.2 ~ 36, 2.2 ~ 36	2.3 ~ 5.0 (0.1V Increments), 5.0 ~ 12.0 (0.25V Increments)	Programmable	Programmable	Active Low (Open-Drain)	SOT-23-5	36V Input Voltage Detector with Delay Function
SGM880xQ	2.3, 3.0	No	1.2 ~ 36, 2.2 ~ 36	2.3 ~ 5.0 (0.1V Increments), 5.0 ~ 12.0 (0.25V Increments)	Programmable	Programmable	Active Low (Open-Drain)	SOT-23-5	Automotive, 36V Input Voltage Detector with Delay Function
SGM890B	0.3	No	1.0 ~ 6.0	0.8 ~ 5.0 (0.1V Increments)		Programmable	Active Low (Open-Drain)	SOT-23-5	Programmable Reset Timeout, Low Quiescent Current
SGM890BxQ	0.4	No	1.0 ~ 6.0	1.0, 3.0		Programmable	Active Low (Open-Drain)	SOT-23-5	Automotive, Programmable Reset Timeout, Low Quiescent Current
SGM891B	0.3	No	1.0 ~ 6.0	0.8 ~ 5.0 (0.1V Increments)			Active Low (Open-Drain)	SOT-23-5	0.8V to 5.0V Selectable Thresholds, Low Quiescent Current
SGM892B	0.4	No	1.0 ~ 6.0	1.0 ~ 5.0 (0.1V Increments)	50	0.11	Active Low (Open-Drain)	SOT-23-5,SOT-23-3,UTDFN-1×1-4L	1.0V to 5.0V Selectable Thresholds, Low Power
SGM893B	0.4	Yes	1.0 ~ 6.0	1.0 ~ 5.0 (0.1V Increments)	50	210	Active Low (Open-Drain)	SOT-23-5,UTDFN-1×1-4L	1.0V to 5.0V Selectable Thresholds, Low Power
SGM894B	0.4	No	1.0 ~ 6.0	1.2 ~ 5.0 (0.1V Increments)			Active Low (Open-Drain)	XTDFN-0.9×1.2-4L,SC70-4 (R)	1.2V to 5.0V Selectable Thresholds, Low Power
SGM895	2.1	No	1.6 ~ 5.5	Adj (0.5 Default)	50	Programmable	Active High (Push-Pull)	UTDFN-1.45×1.6AL,TSOT-23-6	Adjustable Input Delay Time, Enable Delay Time, Low Power
SGM896	2.1	No	1.6 ~ 5.5	Adj (0.5 Default)	50	Programmable	Active Low (Push-Pull)	UTDFN-1.45×1.6AL,TSOT-23-6	Adjustable Input Delay Time, Enable Delay Time, Low Power
SGM897	2.1	No	1.6 ~ 5.5	Adj (0.5 Default)	50	Programmable	Active High (Open-Drain)	UTDFN-1.45×1.6AL,TSOT-23-6	Adjustable Input Delay Time, Enable Delay Time, Low Power
SGM898	2.1	No	1.6 ~ 5.5	Adj (0.5 Default)	50	Programmable	Active Low (Open-Drain)	UTDFN-1.45×1.6AL,TSOT-23-6	Adjustable Input Delay Time, Enable Delay Time, Low Power
SGM899	2.1	No	1.6 ~ 5.5	Adj (0.5 Default)	50	Programmable	Active High (Push-Pull)	UTDFN-1.45×1.6AL,TSOT-23-6	Adjustable Input Delay Time, Enable Delay Time, Low Power

Power Sequencer

Part Number	Supply Current (μA)	Manual Reset	V _{CC} (V)	Reset Output	Package	Features
SGM822	36	No	2.7 ~ 5.5	Active Low/High (Open-Drain)	MSOP-8,UTDFN-1.5×1.5-8L	The Easiest Method to Sequence Rails, Power-Up and Power-Down Control
SGM852	39	No	3 ~ 16	Active Low (Push-Pull)	TDFN-3×3-10L	Dual Channel, Adjustable Delay Time
SGM854	0.7	No	2.4 ~ 12	Active Low/High (Open-Drain/Push-Pull)	UTQFN-1.8×1.4-10L	Load Switch Controller with Reset Timer
SGM864S	55	No	2 ~ 5.5	Active-High (Open-Drain)	TQFN-3.5×3.5-20L	Dual Channel, Adjustable Delay Time

Current Monitor

Amplifiers per Package	Part Number	Interface	V _{CC} (V)	Input Common Mode Voltage Range (V)	Shunt V _{OS} Max @25°C (μV)	TC of Shunt V _{OS} Typ (μV/°C)	Bus V _{OS} Max @25°C (mV)	TC of Bus V _{OS} Typ (μV/°C)	Gain V/V	Gain Error Max (%)	CMRR Typ (dB)	GBP Typ (MHz)	Slew Rate Typ (V/μs)	Package	Features
2	SGM832A	I ² C and SMBus	2.7 ~ 5.5	0 ~ 36	45	0.08	12.5	40		0.25	121	DC		MSOP-10,TDFN-3x3-10L	Bi-Directional, High-Precision, Power/Current Monitor with 16-Bit I ² C Interface
2	SGM832B	I ² C and SMBus	2.7 ~ 5.5	0 ~ 36	10	0.15	5	80		0.25	130	DC		MSOP-10,TDFN-3x3-10L	Bi-Directional, High-Precision, Power/Current Monitor with 16-Bit I ² C Interface
2	SGM835		2.7 ~ 5.5	-0.3 ~ 72	0.125	0.27			12.5/20/50	0.2	140	0.16 @-3dB†	0.5	MSOP-8	Dual-Channel, High Voltage, High-Precision Current Monitor, 20V/V and 50V/V Gains
2	SGM837	I ² C and SMBus	2.7 ~ 5.5	0 ~ 36	20	0.1	10	20		0.25	145	DC		MSOP-10	Bi-Directional, High-Precision, Power/Current Monitor with 16-Bit I ² C Interface
1	SGM840		2.7 ~ 5.5	-4 ~ 80	90				20/50/100	0.35	130	0.4 @-3dB†		SOIC-8,TSSOP-8	Bidirectional, Ultra-Precision Current-Sense Amplifier with High PWM Rejection
1	SGM840xQ		2.7 ~ 5.5	-4 ~ 80	90				20/50/100	0.35	130	0.4 @-3dB†		SOIC-8,TSSOP-8	Automotive Bidirectional, Ultra-Precision Current-Sense Amplifier with High PWM Rejection
2	SGM842	I ² C and SMBus	2.7 ~ 5.5	0 ~ 30	80	0.3	30	200		0.25	124	DC		TQFN-4x4-16L	3-Channel, High-Side or Low-Side Measurement, Shunt and Bus Voltage Monitor with I ² C- and SMBus-Compatible Interface

Note: † Typical Values @ G = 10

High Accuracy, Low Noise, Low Power LDO

Part Number	V _{OUT} (V)	V _{IN} (V)	Output Current (mA)	Dropout Voltage (mV)	Ground Current (No Load) (μA)	Output Voltage Noise (μV _{RMS})	PSRR @1kHz (dB)	Package	Features
SGM2013	1.2,1.5,1.8,2.5,2.8,3.0,3.3	2.5 ~ 5.5	300	270	100	140	72	SOT-89-3	Low Power, Low Noise, 3-Terminal LDO
SGM2019	1.2,1.5,1.8,2.5,2.6,2.8,2.85,3.0,3.3,Adj	2.5 ~ 5.5	300	270	100	30	74	SOT-23-5,SC70-5	Low Power, Low Noise, High PSRR LDO
SGM2021	0.9,1.2,1.3,1.5,1.8,2.1,2.5,2.8,3.0,3.3,...5.0	2.5 ~ 5.5	300	270	120	140	71	SOT-23-3	Low Power, Low Noise, 3-Terminal LDO
SGM2028	1.8,2.8,3.0,3.3,Adj	2.5 ~ 5.5	500	270	115	30	73	SOT-23-5	500mA, Low Power, Low Noise, High PSRR LDO
SGM2031	1.2,1.5,1.8,2.5,2.6,2.8,2.85,3.0,3.3	2.5 ~ 5.5	250	230	95	140	72	UTDFN-1x1-4L	Mini Package, Low Power, High PSRR LDO
SGM2032	0.9,1.3,2.1,2.7,2.9,3.1,3.2,3.6,4.2,5.0,Adj	2.5 ~ 5.5	300	270	120	30	75	SOT-23-5,SC70-5	Low Power, Low Noise, High PSRR LDO
SGM2033	1.2,1.8,2.5,2.8,2.85,2.9,2.95,3.0,3.3,4.2,5.0,Adj	1.8 ~ 5.5	250	62	13.5	20	94	SOT-23-5,UTDFN-1x1-4AL	Ultra Low Noise, High PSRR
SGM2034	1.2,1.8,2.5,2.8,3.0,3.3,3.6,3.7,3.8,4.0,4.5,5.0	1.7 ~ 7.5	250	75 @100mA	1		27	SOT-23-3,SOT-89-3	Ultra Low Current Consumption, Low Dropout
SGM2035C	1.8,2.8,3.0,3.3,Adj	2.5 ~ 5.5	500	250	115	30	73	TDFN-2x2-6L,UTDFN-1.6x1.6-6L	500mA, Mini Package, Low Power, Low Noise, High PSRR LDO
SGM2035S	1.0,1.1,1.2,1.5,1.8,2.5,2.8,3.0,3.3,Adj	1.6 ~ 5.5	500	275	30	60	76	UTDFN-1.6x1.6-6L,TDFN-2x2-6L	500mA, Low Dropout, Low Power, RF Linear Regulator
SGM2036	0.8,0.9,1.0,1.05,1.1,1.2,1.3,1.35,1.5,1.8,1.85,2.1,2.2,2.3,2.5,2.6,2.7,2.8,...Adj	1.6 ~ 5.5	300	165	20	30	70	UTDFN-1x1-4L,SOT-23-5,SC70-5	Mini Package, Low I _Q , Low Noise, High PSRR LDO
SGM2036S	0.75,0.8,0.9,1.0,1.05,1.1,1.2,1.3,1.35,1.5,1.6,1.8,1.85,2.1,2.5,2.8,2.9,3.0,...Adj	1.6 ~ 5.5	300	190	30	13	86	XTDFN-1x1-4L,SOT-23-5,SC70-5	300mA, Low Power and Low Dropout RF Linear Regulator
SGM2037	0.8,0.9,1.0,1.05,1.1,1.15,1.2,1.25,1.3,1.5,1.8,2.5,2.8,3.0,3.3,3.6,Adj	0.8 ~ 5.5	500	120	37	25	71	SOT-23-5,SOT-23-6,UTDFN-1.2x1.2-6L	Low Noise, Very Low Dropout
SGM2037H	Adj	0.8 ~ 5.5	500	120	37	25	71	XTDFN-1.2x1.2-6L	500mA, Low Noise, Very Low Dropout Bias Rail CMOS Voltage Regulator
SGM2038	0.8,0.9,1.0,1.05,1.1,1.15,1.2,1.25,1.3,1.5,1.8,2.5,2.8,3.0,3.3,3.6	0.8 ~ 5.5	500	120	37	25	71	UTDFN-1.2x1.2-4L	Low Noise, Very Low Dropout
SGM2039	0.8,0.9,1.0,1.05,1.1,1.2,1.8,2.5,2.8,3.0,3.3,4.2,Adj	1.8 ~ 5.5	1000	88	55	11	88	XTDFN-1.6x1.2-8L	Fast Transient Response, 1A, Low Noise, Low Voltage, Low Dropout Linear Regulator
SGM2040	1.2,1.5,1.8,2.5,2.8,3.0,3.3,3.6,4.0,4.2,5.0	1.7 ~ 7.5	250	60 @100mA	1		27	SOT-23-5,UTDFN-1x1-4AL	Ultra Low Current Consumption, Low Dropout

High Accuracy, Low Noise, Low Power LDO

Part Number	V _{OUT} (V)	V _{IN} (V)	Output Current (mA)	Dropout Voltage (mV)	Ground Current (No Load) (μA)	Output Voltage Noise (μV _{RMS})	PSRR @1kHz (dB)	Package	Features
SGM2041	0.75,0.8,1.0,1.1,1.2,1.5,1.8,2.5,2.8,3.0,3.3,3.6,4.2,4.35	1.6 ~ 5.5	300	50	11	9.5	92	WLCSP-0.64×0.64-4B-A	Ultra Low Noise, Ultra Thin Package, Low Dropout
SGM2045	0.6,0.75,0.8,0.85,1.0,1.05,1.1,1.2,1.3,1.5,1.75,1.8,1.825,2.2,2.5,2.8,2.9,3.0,3.3,4.2	1.1 ~ 5.5	300	80	15	9.5	92	XTDFN-1×1-4L,WLCSP-0.64×0.64-4B-A	300mA, Low V _{IN} , Ultra Low Noise and High PSRR LDO
SGM2046	0.75,0.8,0.85,1.0,1.05,1.1,1.15,1.2,1.8,2.8,3.0,3.3,Adj	0.5 ~ 5.5	1200	60	35	29	68	WLCSP-0.8×1.2-6B-B	1.2A, Low Noise, Ultra-Low Dropout Bias Rail CMOS Voltage Regulator
SGM2047	0.6,0.7,0.8,0.9,1.0,1.1,1.2,1.5,1.8,2.5,2.8,3.0,3.3,3.6	1.7 ~ 5.5	200	135	0.6	47	64	XTDFN-1×1-4L,SOT-23-5	200mA, Ultra-Low Quiescent Current CMOS Low Dropout Regulators
SGM2048/C	1.2,1.8,2.8,3.0,3.3,5.0,Adj	2.2 ~ 7	1000	150	80	30	75	TDFN-3×3-8CL	1A, Low Noise, Wide Bandwidth, High PSRR, Low Dropout Linear Regulator
SGM2049/C	Adj	1.1 ~ 7	2000	75/80	1.4	5	47 @10kHz	TQFN-3.5×3.5-20L,TQFN-5×5-20L	2A, High Accuracy, Low Noise, Low Dropout Linear Regulator
SGM2050/C	Adj	1.1 ~ 7	3000	99/101	1.4	5	48 @10kHz	TQFN-3.5×3.5-20L	3A, High Accuracy, Low Noise, Low Dropout Linear Regulator
SGM2051	0.75,0.8,0.85,1.0,1.05,1.1,1.15,1.2,1.8,2.8,3.0,3.3,Adj	0.5 ~ 5.5	1200	60	96	29	70	WLCSP-0.8×1.2-6B-A	1.2A, Ultra High PSRR, Fast Load Transient, Bias Rail CMOS Voltage Regulator
SGM2052	0.75,0.8,0.85,1.0,1.05,1.1,1.15,1.2,1.8,2.8,3.0,3.3,Adj	0.5 ~ 5.5	1500	75	96	29	70	WLCSP-0.8×1.2-6B-A	1.5A, Ultra High PSRR, Fast Load Transient, Bias Rail CMOS Voltage Regulator
SGM2053	1.0,1.05,1.1,1.8,2.8,3.0,3.3,Adj	1.5 ~ 5.5	500	95	17	20	93	SOT-23-6	500mA, Ultra Low Dropout, Low Power, RF Linear Regulator
SGM2053S	1.0,1.05,1.1,1.35,1.8,2.5,2.8,3.0,3.3,Adj	1.6 ~ 5.5	500	245	30	13	76	SOT-23-6,SOT-23-5	500mA, Ultra Low Dropout, Low Power, RF Linear Regulator
SGM2054		1.1 ~ 3.5	3000					TDFN-3×3-10L	Sink and Source DDR Termination Regulator
SGM2056	Adj	1.1 ~ 7	1200	85	2600	6.5	72	TDFN-3×3-8DL	1.2A, 7V, High PSRR, Ultra-Low Noise, Ultra-Low Dropout Linear Regulator
SGM2058	Adj	2.3 ~ 5.5	265	58 (MAX) @I _{OUT2} = 60mA	170		30 @50kHz	TQFN-1.8×1.4-10L	Negative Charge Pump and Adjustable Regulator
SGM2059	1.2,1.5,1.8,2.5,2.8,2.9,3.0,3.3,4.2,Adj	1.1 ~ 5.5	300	72	13	9.5	92	SOT-23-5,SC70-5	300mA, Low V _{IN} , Ultra Low Noise and High PSRR Linear Regulator
SGM2060	0.8,0.9,1.2,1.5,1.8,2.5,2.8,3.0,3.3,Adj	1.5 ~ 5.5	1000	120	85	16	60	TDFN-2×2-6AL	1A, Fast Transient Response, Low Voltage and Low Dropout Linear Regulator
SGM2065	Adj	0.8 ~ 5.5	1000	220	37	25	71	XTDFN-1.2×1.2-6L	1A, Low Noise, Ultra-Low Dropout, Bias Rail CMOS Voltage Regulator
SGM2066	Adj	2.7 ~ 5.5	250	34 @100mA	410	28	37 @50kHz	TDFN-2×2-8AL	Low-Noise Regulated, Switched-Capacitor Voltage Inverter
SGM2068	0.8,0.9,1.2,1.5,1.8,2.5,2.8,3.0,3.3,Adj	1.5 ~ 5.5	500	55	85	16	60	SOT-23-5,TDFN-2×2-6AL	500mA, Fast Transient Response, Low Voltage, Low Noise and Low Dropout Linear Regulator
SGM2069	Adj	0.8 ~ 5.5	1500	110	900	29	71	TQFN-5×5-20L,TDFN-3×3-10AL	1.5A, High PSRR,Low Dropout Linear Regulator with Programmable Soft-Start
SGM2074	0.8,0.9,1.0,1.05,1.1,1.15,1.2,1.25,1.3,1.5,1.8,2.5,2.8,3.0,3.3,3.6,Adj	0.8 ~ 5.5	500	125	88	31	80	SOT-23-5, SOT-23-6,XTDFN-1.2×1.2-6L	500mA, Fast Load Transient Response,1.2V Logic, Low Noise, Low Dropout,Bias Rail CMOS Voltage Regulator
SGM2075	0.8,0.9,1.0,1.05,1.1,1.15,1.2,1.25,1.3,1.5,1.8,2.5,2.8,3.0,3.3,3.6	0.8 ~ 5.5	500	125	88	31	80	XTDFN-1.2×1.2-4L	500mA, 1.2V Logic, Low Noise, Low Dropout,Bias Rail CMOS Voltage Regulator
SGM2077A	0.75,0.8,0.85,1.0,1.05,1.1,1.15,1.2,1.8,2.8,3.0,3.3,Adj	0.5 ~ 5.5	1200	60	96	29	70	WLCSP-0.8×1.2-6B-A	1.2A, Ultra-High PSRR, Fast Load Transient, 1.2V Logic, Bias Rail CMOS Voltage Regulator
SGM2077B	0.75,0.8,0.85,1.0,1.05,1.1,1.15,1.2,1.8,2.8,3.0,3.3,Adj	0.5 ~ 5.5	1500	75	96	29	70	WLCSP-0.8×1.2-6B-B	1.5A, Ultra-High PSRR, Fast Load Transient, 1.2V Logic, Bias Rail CMOS Voltage Regulator
SGM2078	0.8,1.1,1.2,1.5,1.8,2.5,2.8,2.9,3.0,3.3,Adj	1.6 ~ 5.5	300	190	37	60	86	XTDFN-1×1-4L,SOT-23-5,SC70-5	300mA, 1.2V Logic, Low Power and Low Dropout RF Linear Regulator
SGM2079	1.2,1.8,2.8,3.0,3.3,5.0,Adj	2.2 ~ 5.5	1000	130	90	22	74	TDFN-3×3-8JL	1A, Low Noise, Wide Bandwidth,High PSRR, Low Dropout Linear Regulator
SGM2079xQ	Adj	2.2 ~ 5.5	1000	130	90	18	74	TDFN-3×3-8JL	Automotive,1A, Low Noise, Wide Bandwidth,High PSRR, Low Dropout Linear Regulator
SGM2080	0.8,0.9,1.2,1.8,2.5,2.8,3.0,3.3,Adj	1.5 ~ 5.5	500	55	85	16	60	TDFN-2×2-6AL	500mA, Fast Transient Response, Low Noise and High Accuracy LDO with Power-Good
SGM2081	Adj	0.8 ~ 5.5	500	30	900	29	80	TDFN-3×3-10AL	500mA, High PSRR,Low Dropout Linear Regulator with Programmable Soft-Start
SGM2084	0.8,0.9,1.2,1.8,2.5,2.8,3.0,3.3,Adj	1.5 ~ 5.5	1000	120	85	16	60	TDFN-2×2-6AL	1A, Fast Transient Response, Low Noise and High Accuracy LDO with Power-Good
SGM2085xQ	0.75,1.2,1.5,1.7,1.8,2.5,2.8,2.9,3.0,3.3,3.6,4.2,Adj	1.9 ~ 5.5	300	175	30	31	71	SOT-23-5	Automotive, 300mA, Low Noise, High PSRR, Low I _Q and Low Dropout Regulator

High Reliability LDO

Part Number	V _{IN} Min (V)	V _{IN} Max (V)	Output Current (mA)	Dropout Voltage (mV)	Ground Current (No Load) (μA)	PSRR @1kHz (dB)	V _{OUT} (V)	Package	Features
SGM2200	4	26.4	50	1750	1.75	47	1.5,1.8,2.5,2.8,3.0,3.3,3.6,4.4,5.0,Adj	SOT-89-3,TSOT-23-5,SOT-23,SC70-5	High Voltage, Low I _Q , Small Package, Single
SGM2200H	2.7	36	60	1600	2.2	40	1.8,2.5,3.0,3.3,3.6,5.0,Adj	SOT-89-3,TSOT-23-5,SOT-23,SC70-5	High Voltage, Low I _Q , Small Package, Single
SGM2201	2.7	36	150	1300	4.2	40	Adj	TSOT-23-5,TDFN-2×3-8L	High Voltage, Low I _Q , Small Package, Single
SGM2202	2.7	36	150	1300	4.2	40	2.5,2.8,3.0,3.3,5.0,Adj	SOT-23-5,SOT-23-6	High Voltage, Low I _Q , Small Package, Single
SGM2203	2.7	36	150	1300	4.2	40	2.5,2.8,3.0,3.3,3.5,3.6,4.0,4.2,5.0,5.75,8.0,9.0,12	SOT-89-3,SOT-23,SOT-23-5	High Voltage, Low I _Q , Small Package, Single
SGM2205	2.5	20	800	450	80	75	1.8,2.5,3.0,3.3,3.6,4.2,5.0,12,Adj	TDFN-3×3-8L,SOIC-8,SOT-89-3,SOT-223-3,TO-263-5B	High Voltage, Low Noise
SGM2207	2.5	20	800	400	80	75	Adj	TDFN-2×3-8BL	High Voltage, Low Noise
SGM2208	0	24	3000	155		55	Adj	TDFN-3×3-12L,TO-263-5B,TSSOP-16 (Exposed Pad)	High Voltage, Low Noise, Current Source Reference
SGM2209	-2.7	-24	-500	-260	-42	-75	1.2,1.5,1.8,2.5,2.8,3.0,3.3,5.0,Adj	TDFN-2×2-6AL,TDFN-3×3-8L,SOT-23-5	High Voltage, Low Noise, High PSRR
SGM2210	2.5	20	300	240	36	100	1.2,1.8,2.5,3.3,3.6,5.0,Adj	SOT-23-5	High Voltage, Low Noise
SGM2210P	2.5	20	200	160	36	100	1.2,3.3,4.1,5.0,Adj	SOT-23-5	High Voltage, Low Noise
SGM2211	2.7	20	500	360	43	100	1.2,1.5,1.8,2.5,2.8,3.0,3.3,3.8,4.2,5.0,Adj	TDFN-2×2-6AL,SOT-23-5	High Voltage, Low Noise
SGM2212	2.7	20	800	280	80	75	1.2,1.8,2.5,2.8,3.3,5.0,Adj	TDFN-3×3-8L,SOT-223-3,TO-263-3,TO-252-2	High Voltage, Low Noise
SGM2214	2.7	16	300	235	40	85	1.5,1.8,2.5,2.7,2.8,3.0,3.3,5.0,Adj	SOIC-8	High Voltage, Low I _Q , Low Dropout
SGM2217	2.8	30	1500	1300	2000	70	1.8,2.5,2.8,3.0,3.3,5.0,12,Adj	TO-263-3A,TDFN-4×4-8L	1.5A, Low Dropout Positive Regulator
SGM2217Q	2.8	30	1500	1320		74	Adj	SOIC-8 (Exposed Pad)	Automotive, 1.5A, Low Dropout Positive Regulator
SGM2217S	2.8	27	1500	1300	2400	74	1.8,2.5,2.8,3.0,3.3,5.0,12,Adj	TO-252-2A,TO-263-3A,TDFN-4×4-8L	1.5A, Low Dropout Positive Regulator
SGM2220	2.2	13	300	330	1	52	0.8,1.2,1.5,1.8,2.5,2.8,3.0,3.3,3.6,3.9,4.0,4.1,4.2,4.5,5.0	SOT-23-5,SOT-89-3	1μA Low Quiescent Current, Low Dropout, 300mA, High Voltage Regulator
SGM2221	2.2	13	300	330	1	52	1.2,1.5,1.8,2.5,2.8,3.0,3.3,3.6,3.9,4.0,4.1,4.2,5.0,Adj	SOT-23-5,TDFN-2×2-6AL	1μA Low Quiescent Current, Low Dropout, 300mA, High Voltage Regulator
SGM2225	3.6	36	800	450	80	75	1.8,2.5,3.3,5.0,12,Adj	TDFN-3×3-8L,SOIC-8,SOT-89-3,SOT-223-3,TO-263-5B	High Voltage, Low Noise
SGM2231	-2.7	-24	-500	-230	-47	-75	1.1,1.2,1.5,1.8,2.5,2.8,3.0,3.3,5.0,Adj	UTDFN-2×2-8CL	High Voltage, Low Noise, High PSRR, Negative Output Linear Regulator
SGM2232	4	40	150	570	16	84	2.5,3.3,5.0,8.0,9.0,12	SOT-223-3,SOT-23-5,SOT-89-3	150mA, High Voltage, Ultra-Low I _Q ,High PSRR, Low Dropout Regulator
SGM2232xQ	4	40	150	570	16	84	2.5,3.3,5.0	SOT-223-3,SOT-23-5	Automotive,150mA, High Voltage, Ultra-Low I _Q ,High PSRR, Low Dropout Regulator
SGM2240	2.7	20	1000	1250	2200	71@V _{OUT} = 1.25V	1.5,1.8,2.5,2.8,2.85,3.0,3.3,5.0,12,Adj	SOT-223-3,TO-252-2A	1A, Low Dropout Positive Fixed and Adjustable Voltage Regulator
SGM2240xQ	2.7	20	1000	1250	2200	71@V _{OUT} = 1.25V	1.5,1.8,2.5,2.8,2.85,3.0,3.3,5.0,12,Adj	SOT-223-3,TO-252-2A	Automotive, 1A, Low Dropout Positive Fixed and Adjustable Voltage Regulator
SGM2300	4	18	50	1750	1.7	47	1.5,1.8,2.5,2.8,3.0,3.3,3.6,5.0,Adj	SOT-23-5,SOT-23	High Voltage, Low I _Q , Small Package, Single
SGM71XX	2.7	36	60	1600	2.2	40	3.0,3.3,3.6,4.4,5.0	SOT-89-3	High Voltage, Low I _Q , Small Package, Single

Multi-Channel, High Accuracy, Low Noise, Low Power LDO

Part Number	V_{OUT} (V)	V_{IN} (V)	Output Current (mA)	Dropout Voltage (mV)	Ground Current (No Load) (μ A)	Output Voltage Noise (μ V _{RMS})	PSRR @1kHz (dB)	Package	Features
SGM2022	2 Channels, 2.8/1.8,2.8/1.3,2.8/1.2,2.8/1.5,2.8/2.8,1.5/3.3,2.5/1.8,...	2.5 ~ 5.5	250	250	190	120	54	SOT-23-6	2 Channels, Low Power, High Accuracy
SGM2027	2 Channels, 3.0/3.0,1.2/1.8,1.8/3.0,1.5/2.8,1.8/3.3,1.2/2.8,1.8/2.8,2.8/3.3	2.5 ~ 5.5	250	250	190	120	54	TSOT-23-6	2 Channels, Low Power, High Accuracy
SGM2042	2 Channels, 1.8/0.75,1.8/0.70,...	1.6 ~ 5.5	100	220	40	145	65	UTDFN-1×1-4AL	2 Channels, Low Power, High Accuracy
SGM2206	2 Channels, 3.3/1.8,1.2/1.8,1.5/2.8,1.8/1.5,1.8/1.8,1.8/2.8,...	1.7 ~ 7.5	150	150	35	70	60	UTDFN-1.2×1.2-6AL	2 Channels, Low Power, High Accuracy

Load Switch

Switches per Package	Part Number	Continuous Output Current Max (mA)	Quiescent Current (μ A)	V_{IN} Min (V)	V_{IN} Max (V)	Enable Logic	Shutdown Current (μ A)	Current Limit (mA)	Soft-Start	Fault Flag	Package	Features
1	SGM25117A	17000	250	0.5	14	Active High	<2		Yes	No	TDFN-3×3-12AL	Ultra-Low R_{ON} , Advanced Load Management Controlled Load Switch
1	SGM2521	2000	170	4.5	24	Active High	<1.4	Programmable (260~2000)	Yes	Yes	SOIC-8,TDFN-2×3-8BL	24V, 2A, Auto-Recovery Programmable Current Limit Switch
1	SGM2522	2000	170	4.5	24	Active High	<1.4	Programmable (260~2000)	Yes	Yes	SOIC-8,TDFN-2×3-8BL	24V, 2A, Latched-Off Programmable Current Limit Switch
1	SGM2523A	1600	150	2.6	22	Active High	<2	Programmable (100~1600)	Yes	Yes	SOT-23-6	22V, 1.6A, Auto-Recovery Programmable Current Limit Switch
1	SGM2523B	1600	150	2.6	22	Active High	<2	Programmable (100~1600)	Yes	Yes	SOT-23-6	22V, 1.6A, Latched-Off Programmable Current Limit Switch
1	SGM2523C/D	1200	150	2.6	22	Active High	<2	Programmable (100~1200)	Yes	Yes	SOT-23-6	Programmable Current Limit Switch
1	SGM2528	5000	110	9	18	Active High	48	Programmable (1500~5000)	Yes	Yes	TDFN-3×3-10L	5A, 12V Electronic Fuse (eFuse) with Thermal Shutdown
1	SGM2529	5000	102			Active High	47	Programmable (1500~5000)	Yes	Yes	TDFN-3×3-10L	5A, 5V Electronic Fuse (eFuse) with Thermal Shutdown
1	SGM2531C	3000	170	4	22	Active High	<2.5	Programmable (100~3000)	Yes	Yes	SOIC-8 (Exposed Pad),TDFN-2×3-8BL	Programmable Current Limit Switch
1	SGM2531D	3000	170	4	22	Active High	<2.5	Programmable (100~3000)	Yes	Yes	SOIC-8 (Exposed Pad),TDFN-2×3-8BL	Programmable Current Limit Switch
1	SGM2535	5300	133	2.7	18	Active High	3.9	Programmable (600~5300)	Yes	Yes	TQFN-3×4-20L	2.7V to 18V eFuse with True Reverse Blocking and Multiple Protection Modes
1	SGM2536	5500	132	2.7	23	Active High	<10	Programmable (500~6000)	Yes	No	TQFN-2×2-10L	5.5A, 23.7m Ω Electronic Fuse Supporting Bidirectional Current Conduction
1	SGM2537A	4000	148	2.7	18	Active Low (-xRN) Active High (Other)	<70 (-xRN) <5 (Other)	Programmable (500~4000)	Yes	No (-xRD) Yes (Other)	TDFN-2×2-8AL	4A, 35m Ω eFuse with Selectable Over-Voltage Clamping Function
1	SGM2538	5000	210	4.5	14	Active High	<3.5	Programmable (1000~5000)	Yes	No	TDFN-3×3-10AL	5V/12V Electronic Fuses (eFuses) with OVP Function and Blocking FET Control
1	SGM2539	5000	75	2.5	20	Active Low	<2		Yes	No	WLCSF-2.56×1.54-15B	High Voltage, USB PD Power Switch
2	SGM2540	2000/1500	88	2.5	20	None			Yes	No	UTDFN-2×2-8AL	Autonomous 20V Charging Sources Selection and OTG Feeding Switch Combo
1	SGM2551A/C	1500	71	2.5	5.5	Active High	<2.5	Programmable (100~1700)	Yes	No	TDFN-2×2-6L,SOT-23-5	1.5A, Adjustable Current Limit, Soft-Start, Tiny Package
1	SGM2554A	1100	19	2.2	5.5	Active High	<1	1850	Yes	No	SOT-23-5	1.1A Output Current, 1.85A Fixed Current Limit, Low Power
1	SGM2554B	1100	19	2.2	5.5	None	NA	1750	Yes	No	SOT-23-5	1.1A Output Current, 1.75A Fixed Current Limit, Low Power
2	SGM2558A	600/CH	28	2.7	5.5	Active High	<1	1100	Yes	Yes	SOIC-8,TDFN-3×3-8L	600mA Output Current, 1.1A Fixed Current Limit, Dual Channels

Load Switch

Switches per Package	Part Number	Continuous Output Current Max (mA)	Quiescent Current (μA)	V _{IN} Min (V)	V _{IN} Max (V)	Enable Logic	Shutdown Current (μA)	Current Limit (mA)	Soft- Start	Fault Flag	Package	Features
2	SGM2558B	600/CH	28	2.7	5.5	Active Low	<1	1100	Yes	Yes	SOIC-8,TDFN-3×3-8L	600mA Output Current, 1.1A Fixed Current Limit, Dual Channels
2	SGM2560A	600/CH	28	2.7	5.5	Active High	<1	1100	Yes	Yes	SOIC-8,TDFN-3×3-8L	600mA Output Current, 1.1A Fixed Current Limit, Dual Channels
2	SGM2560B	600/CH	28	2.7	5.5	Active Low	<1	1100	Yes	Yes	SOIC-8,TDFN-3×3-8L	600mA Output Current, 1.1A Fixed Current Limit, Dual Channels
1	SGM25641	4000	37	0.6	1	Active High	<1		Yes	No	UTDFN-1.5×1.5-6BL	Single 4A, Ultra-Low Loss Load Switch
1	SGM2564A	4000	0.58	1	5.5	Active High	<0.55		Yes	No	WLCSP-1.45×0.95-6B	5.5V, 4A, 16mΩ R _{ON} , Load Switch with Reverse Current Protection
1	SGM25662	10000	12	0.8	5.5	Active High	1.1	N/A	Yes	No	TDFN-3×3-8EL	5.5V, 10A, 4.3mΩ On-Resistance Load Switch
1	SGM2566A/B	6000	16	0.8	5.3	Active High	<1.4		Yes	Yes	TDFN-2×2-8L	6A, 17mΩ On-Resistance Load Switch
1	SGM2571	1000	0.22	1	5.5	Active High	<0.44		Yes	No	WLCSP-0.8×0.8-4B	1A, Ultra Low Quiescent Current, WLCSP Package
1	SGM25711B		320	2.5	18	Active High	4	25mV/R _{SENSE}	Yes	Yes	MSOP-10	2.5V to 18V High-Efficiency Power-Limiting Hot Swap Controller
1	SGM2572	2000	0.22	1	5.5	Active High	<0.44		Yes	No	WLCSP-0.8×0.8-4B	2A, Ultra Low Quiescent Current, WLCSP Package
1	SGM2574	1000	0.22	1	5.5	Active High	<0.44		Yes	No	WLCSP-0.8×0.8-4B	1A, Ultra Low Quiescent Current, WLCSP Package
1	SGM2575	2000	0.22	1	5.5	Active High	<0.44		Yes	No	WLCSP-0.8×0.8-4B	2A, Ultra Low Quiescent Current, WLCSP Package
1	SGM2578A	2000	0.22	1	5.5	Active High	< 0.65		Yes	No	WLCSP-0.9×0.9-4B-A	2A, Ultra Low Quiescent Current, WLCSP Package
1	SGM2590/D	3000	27	2.5	6	Active High	<5	Programmable (100~3000)	Yes	No	SOT-23-5	Power Distribution Switches
1	SGM2591	2900	28	2.5	6	Active High	<3	1300/2400/3000	Yes	Yes	SOT-23-5	Power Distribution Switch
1	SGM2592	2300	27	2.5	6	Active High	<3	1285/2370	Yes	No	SOT-23-5	Power Distribution Switch
1	SGM2593/D	3000	27	2.5	6	Active High	<5	Programmable (100~3000)	Yes	Yes	TDFN-2×2-6AL,SOT-23-6	Power Distribution Switches
1	SGM2593A/AD	2900	28	2.5	6	Active High	<3	Programmable (100~3000)	Yes	Yes	SOT-23-5	Power Distribution Switch
1	SGM2594	3410	28	2.5	6	Active High	<3	1300/2400/3000/3410	Yes	Yes	SOT-23-5	Power Distribution Switch
1	SGM2595D	2800	27	2.5	6	Active High	0.29	2905	Yes	Yes	MSOP-8, SOT-23-5	Power Distribution Switch
2	SGM2596/D	6000/CH	22	0.6	5.7	Active High	<0.5		Yes	No	TDFN-3×2-14AL	5.7V, 6A, 16mΩ On-Resistance, Dual-Channel Load Switch
1	SGM40642	2500	190	2.5	6.5	Active High	1	Programmable (709~2959)	Yes	Yes	TDFN-2×2-6AL	5V eFuse with Precision Adjustable Current Limit and Over-Voltage Clamp
1	SGM4073	6000	1	1.5	5.5	None	<1.5		Yes	No	WLCSP-1.31×1.62-12B	6A, Ultra Low Quiescent Current, Programmable Reset Timer, WLCSP Package
1	SGM4076	6000/4500	1	1.6	5.5	None	<1.5		Yes	No	WLCSP-1.31×1.62-12B,TDFN-3×3-8L	6A/4.5A, Reset Timer with Integrated Load Switch, WLCSP/TDFN Packages

Protection Switch

Part Number	Input Over-Voltage Protection Threshold (V)	Input Voltage Max (V)	Battery Over-Voltage Protection Threshold (V)	Maximum Start-Up Output Current (mA)	Shutdown Current (μA)	Soft-Start	Soft-Stop	LDO Mode Output Voltage (V)	Package	Features
SGM4062	6.8	18	4.35	1500	<2	Yes	Yes	5.1	TDFN-2x2-8L, MSOP-8 (Exposed Pad)	1.5A Fixed Start-Up Current, Soft-Start, Soft-Stop, 18V Input
SGM4064	6.8	18	4.35	Adj (Max 1500)	<2	Yes	Yes	5.1	TDFN-2x2-8L	Adjustable Start-Up Current, Soft-Start, Soft-Stop, 18V Input
SGM40656	Adj (Default 15.58)	28	NA	6000	<2	Yes	NA	NA	WLCSP-1.31x1.84-12B	110V Surge/Inrush Immunity Function, Adj OVP, 6A, 20mΩ R _{DS(ON)} , Soft Start-Up, 28V Input with Shutdown
SGM40661	Adj (Default 5.94)	28	NA	4000	NA	Yes	NA	NA	WLCSP-1.30x0.94-6B	Adj OVP, 4A, 28V Input
SGM40663	Adj (Default 22.2)	28	NA	4500		Yes	NA	NA	WLCSP-1.17x1.63-12B	110V/400V Surge/Inrush Immunity Function, Adj OVP, 4.5A, 28mΩ R _{DS(ON)} , Soft Start-Up, 28V Input with Shutdown
SGM40664	Adj (Default 15.3)	28	NA	4500		Yes	NA	NA	WLCSP-1.17x1.63-12B	110V/400V Surge/Inrush Immunity Function, Adj OVP, 4.5A, 28mΩ R _{DS(ON)} , Soft Start-Up, 28V Input with Shutdown
SGM40665	Adj (Default 10.5)	28	NA	4500		Yes	NA	NA	WLCSP-1.17x1.63-12B	110V/400V Surge/Inrush Immunity Function, Adj OVP, 4.5A, 28mΩ R _{DS(ON)} , Soft Start-Up, 28V Input with Shutdown
SGM40666	Adj (Default 6.83)	28	NA	4500		Yes	NA	NA	WLCSP-1.17x1.63-12B	110V/400V Surge/Inrush Immunity Function, Adj OVP, 4.5A, 28mΩ R _{DS(ON)} , Soft Start-Up, 28V Input with Shutdown
SGM40666A	Adj (Default 6.83)	28	NA	4500		Yes	NA	NA	WLCSP-1.17x1.63-12B	High-Current Over-Voltage Protector
SGM40666AS	Adj (Default 6.79)	28	NA	4500		Yes	NA	NA	WLCSP-1.65x1.24-12B	High-Current Over-Voltage Protector
SGM40666B	Adj (Default 6.83)	28	NA	4500		Yes	NA	NA	WLCSP-1.17x1.63-12B	High-Current Over-Voltage Protector
SGM40666BS	Adj (Default 6.79)	28	NA	4500		Yes	NA	NA	WLCSP-1.65x1.24-12B	High-Current Over-Voltage Protector

Switch Complex

per Package	Part Number	Continuous Output Current Max (mA)	Quiescent Current (μA)	V _{IN} Min (V)	V _{IN} Max (V)	Enable Logic	Shutdown Current (μA)	Current Limit (mA)	Soft-Start	Fault Flag	Package	Features
1	SGM2539	5000	75	2.5	20	Active Low	<2		Yes	No	WLCSP-2.56x1.54-15B	High Voltage, USB PD Power Switch
2	SGM2540	2000/1500	88	2.5	20	None			Yes	No	UTDFN-2x2-8AL	Autonomous 20V Charging Sources Selection and OTG Feeding Switch Combo
1	SGM2541	±5000	123	3	20	Active Low			Yes	Yes	WLCSP-2.43x1.75-20B	28V/16V Bidirectional Load Switch with Wireless/Dual Input Capability
2	SGM2549		1.3	1.7	5.5	None			Yes	No	UTDFN-1.5x2-6L, SOT-23-6	CTIA/OMTP Headset Ground Pole Switch Autonomous Pole Position Fixing
1	SGM41007	5000	75	2.7	5.5	None			No	No	TSOT-23-6	High Power Heating Resistance Wire Driver with Battery Protection, Firepower Control and Status Indication
1	SGM41008	5000	75	2.7	5.5	None		560	No	No	TSOT-23-6	High Power Heating Resistance Wire Driver with Battery Protection, Firepower Control and Status Indication

N-Channel MOSFET

Configuration	Part Number	V _{DS} (V)	V _{GS} (±V)	R _{DS(ON)} Typ @10V (mΩ)	R _{DS(ON)} Typ @4.5V (mΩ)	R _{DS(ON)} Typ @2.5V (mΩ)	I _D T _A @25°C (A)	I _D T _C @25°C (A)	V _{GS(TH)} Max (V)	Q _G Typ @10V (nC)	Q _G Typ @4.5V (nC)	Q _{GS} Typ (nC)	Q _{GD} Typ (nC)	C _{ISS} (pF)	C _{OSS} (pF)	C _{RSS} (pF)	Package	Features
Dual	SGMDQ12340	40	20	12	19		10	25	2.2	8.8	4.4	1.5	2.2	375	153	12	PDFN-3.3×3.3-8BL	40V, Power, Dual N-Channel, PDFN Package, MOSFET
Single	SGMNE12220	20	8		100	115	2		1		1.3	0.2	0.3	71	20	12	UTDFN-1×0.6-3L	20V, Power, Single N-Channel, UTDFN Package, MOSFET
Single	SGMNE20220	20	8		155	230	1.2		1		0.8	0.3	0.2	33	12	7	UTDFN-1×0.6-3L	20V, Power, Single N-Channel, UTDFN Package, MOSFET
Single	SGMNE39220	20	8		300	370	1.2		1		0.7	0.2	0.1	19	9	5	UTDFN-1×0.6-3L	20V, Power, Single N-Channel, UTDFN Package, MOSFET
Single	SGMNM05330	30	20	4.3	6.1		20		2	34.2		4.6	7.2	1557	189	178	TDFN-2×2-6BL,TDFN-2×2-6CL	30V, Power, Single N-Channel, TDFN Package, MOSFET
Single	SGMNM07330	30	20	5.4	7			48	2	33.1	16.2	5	6.7	1545	183	164	PDFN-3.3×3.3-8AL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNM10330	30	20	8	10			18.5	2	33	16	5	6.5	1529	185	165	PDFN-3.3×3.3-8AL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNM12330	30	20	9			10		2	33.9		191	160	1629	191	160	TDFN-2×2-6BL	30V, Power, Single N-Channel, TDFN Package, MOSFET
Single	SGMNM50430	30	20	4.3	6.1		20	60	2	34		4.5	7	1555	189	178	TDFN-2×2-6BL	30V, Power, Single N-Channel, TDFN Package, MOSFET
Single	SGMNM55430	30	20	4.5	6.5			53		33.2	16.2	5.3	6.9	1574	185	144	PDFN-3.3×3.3-8L	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNM73430	30	20	4.9	6.8			45	2	32.8	15.8	4.6	5.8	1477	185	165	PDFN-5×6-8BL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ07430	30	20	0.6	0.9			327	2.2	130.7	60.6	29	19.9	5844	5051	175	PDFN-5×6-8CL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ07440	40	20	0.55	0.86			380	2.2	132.6	66	26	30.7	7320	2633	118	PDFN-5×6-8CL	40V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ09440	40	20	0.6	0.9			340	2.2	128	63	21	30	7206	2022	78	PDFN-5×6-8CL	40V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ12340	40	20	13	20		9	25	2.2	8.5	4.5	1.4	2.3	371	150	12	TDFN-2×2-6BL	40V, Power, Single N-Channel, TDFN Package, MOSFET
Single	SGMNQ17430	30	20	1.4	2		33	166	2.2	38.6	19.2	6.7	8.9	2044	1824	94	PDFN-5×6-8BL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ19360	60	20	15	21		9	33/30	2.5	13.3	7.1	2.2	3.6	568	141	16	PDFN-5×6-8BL,PDFN-3.3×3.3-8AL	60V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ23430	30	20	1.8	2.8		27	153	2.2	35	17.2	5	7.9	1658	1425	88	PDFN-3.3×3.3-8L	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ28430	30	20	1.8	3.1		28	140	2.2	29	14.7	4.6	7.7	1307	1128	114	PDFN-5×6-8AL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ32430	30	20	3.1	5.3		19	91/101	2.2	17.6	9.1	3.1	4.1	960	668	42	TDFN-2×2-6BL,PDFN-3.3×3.3-8L	30V, Power, Single N-Channel, DFN Package, MOSFET
Single	SGMNQ35460	60	20	2.5	3.5		21	138	2.5	99	50	16	24	4733	1092	89	PDFN-5×6-8BL	60V, PDFN Package, Single N-Channel, MOSFET
Single	SGMNQ36430	30	20	2.9	4.6		21	75	2.2	22.7	11.6	3.5	5	1028	876	57	PDFN-3.3×3.3-8L	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ40430	30	20	2.3	4.3		24	120	2.2	20.1	9.9	3.8	5	971	810	73	PDFN-5×6-8AL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ48430	30	20	3.4	5.2		22	35	2.2	20.1	10.1	3.5	5	870	790	55	PDFN-3.3×3.3-8AL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ59430	30	20	4.4	6.4		18	50	2.2	19.8	9.9	3.9	5	880	780	57	PDFN-5×6-8BL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ69430	30	20	6.3	10.6		13	30	2.2	13.5	7	2	4	589	481	34	TDFN-2×2-6BL	30V, Power, Single N-Channel, TDFN Package, MOSFET
Single	SGMNQ70430	30	20	5.3	9		14/17	40/46	2.2	13.9	7.2	2.2	4	588	519	35	PDFN-3.3×3.3-8AL,PDFN-5×6-8BL	30V, Power, Single N-Channel, PDFN Package, MOSFET
Single	SGMNQ90540	40	20	0.72	1.05		44	320	2.2	102	52	16	20	5385	1562	49	PDFN-5×6-8CL	40V, Power, Single N-Channel, PDFN Package, MOSFET
Dual	SGMTC27412	12	8		2.1	3.4	12		1.2		50.7	1.9	9.8	2411	682	134	WLCSP-3.08×1.80-6L	12V, Dual N-Channel, WLCSP Package, Battery MOSFET
Dual	SGMTC28412	12	8		2.1	3.4	12		1.2		39.8	1.5	7.7	2069	553	134	WLCSP-3.01×1.52-10L	12V, Dual N-Channel, WLCSP Package, Battery MOSFET

P-Channel MOSFET

Configuration	Part Number	V _{DS} (V)	V _{GS} (±V)	R _{DS(ON)} Typ @-10V (mΩ)	R _{DS(ON)} Typ @-4.5V (mΩ)	R _{DS(ON)} Typ @-2.5V (mΩ)	I _D T _A @25°C (A)	I _D T _C @25°C (A)	V _{GS(TH)} Max (V)	Q _G Typ @-10V (nC)	Q _G Typ @-4.5V (nC)	Q _{GS} Typ (nC)	Q _{GD} Typ (nC)	C _{ISS} (pF)	C _{OSS} (pF)	C _{RSS} (pF)	Package	Features
Single	SGMPE12120	-20	8		900	1100	-0.6		-1		0.62	0.21	0.13	27	11	4	UTDFN-1×0.6-3L	20V, Power, Single P-Channel, UTDFN Package, MOSFET
Single	SGMPE35220	-20	8		230	315	-1.2				1.58	0.4	0.34	128	19	13	UTDFN-1×0.6-3L,SOT-723-3	20V, Power, Single P-Channel, MOSFET
Single	SGMPM15330	-30	20	12	20		-9		-2	32	15.5	5.2	5	1753	192	168	TDFN-2×2-6BL	30V, Power, Single P-Channel, TDFN Package, MOSFET
Single	SGMPM16330	-30	20	13	17		-10	-32	-2	32	15.5	5.2	5	1778	200	171	PDFN-3.3×3.3-8CL	30V, Power, Single P-Channel, PDFN Package, MOSFET
Single	SGMPM21330	-30	20	16	24		-7.5		-2.5	32	15	7.2	5	1791	194	156	TDFN-2×2-6BL,TDFN-2×2-6CL	30V, Power, Single P-Channel, TDFN Package, MOSFET

GaN MOSFET

Part Number	Configuration	V _{DS} (V)	V _{GS} (±V)	R _{DS(ON)} Typ @6V (mΩ)	I _D T _A @25°C (A)	I _D T _C @25°C (A)	V _{GS(TH)} Max (V)	Q _G Typ (nC)	Q _{GS} Typ (nC)	Q _{GD} Typ (nC)	C _{ISS} (pF)	C _{OSS} (pF)	C _{RSS} (pF)	Package	Features
SGMGB05340	Single	40	7	3.6		20	2.5	10.8	0.4/5.4	0.4/5.4	425	290	144	WLCSP-2.15×2.15-22B	40V, WLCSP Package, GaN E-Mode Power Transistor
SGMGH10265G	Single	650	-10 ~ 7	75	3	25	2.5	2.7	0.6	1.3	121	34	0.4	TDFN-8×8-8L(G)	650V, TDFN Package, GaN E-mode Power Transistor
SGMGH15265	Single	650	-10 ~ 7	120	2.8	16	2.5	2.3	0.71	0.72	77	22	0.43	TDFN-8×8-8L	650V, TDFN Package, GaN E-mode Power Transistor
SGMGH22265	Single	650	-10 ~ 7	170	445	2.3	11	2.6	2		0.18	0.62	53	TDFN-8×8-8L,TDFN-5×6-8L	650V, TDFN Package, GaN E-mode Power Transistor
SGMGQ12310	Single	100	6	10.4	18		3	4.2	0.49	1.5	251	155	3.2	WLCSP-2.15×1.55-6L	100V, WLCSP Package, GaN E-Mode Power Transistor
SGMGQ65310	Single	100	6	50	1.7		3	1578	144	574	52	32	0.5	WLCSP-0.9×0.9-4B-C	100V, WLCSP Package, GaN E-Mode Power Transistor

Battery Protection IC

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Shutdown				Package	Features
			V _{IN} Min (V)	V _{IN} Max (V)	Current From V _{IN} (μA)	Status Indication		
SGM41002	2 to 4	4.35,4.45,4.5	3.6	24	<3	No	UTDFN-2×2.5-8L	Battery Protection IC for 2-Serial to 4-Serial-Cell Pack (Secondary Protection)
SGM41010	1	4.1 ~ 5	0	6	<0.1	No	XTDFN-1.4×1.4-6L,UTDFN-1.4×1.8-6L	Battery Protection IC for 1-Cell Pack
SGM41012	1	4.1 ~ 5			0.005	No	XTDFN-1.4×1.4-6L,UTDFN-1.4×1.8-6L	Battery Protection IC for 1-Cell Pack
SGM41100	1	4.2,4.25,4.3,4.35,4.4,4.45,4.5,4.55	0	6	<0.1	No	UTDFN-1.5×2-6L	Single Battery Protection IC
SGM41100A	1	4.2,4.25,4.3,4.35,4.4,4.45,4.5,4.55	0	6	<0.1	No	UTDFN-1.5×2-6L	Single Battery Protection IC
SGM41100V	1	4.2,4.225,4.25,4.275,4.3,4.325,4.35,4.375,4.4,4.425,4.45,4.475,4.5,4.525,4.55,4.575	0	6	<0.1	No	UTDFN-1.5×2-6L	Single Battery Protection IC
SGM41100W	1	4.2,4.225,4.25,4.275,4.3,4.325,4.35,4.375,4.4,4.425,4.45,4.475,4.5,4.525,4.55,4.575	0	5.5	<0.1	No	UTDFN-1.5×2-6L	Single Battery Protection IC

Battery Protection IC

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Shutdown		Status Indication	Package	Features
			V _{IN} Min (V)	V _{IN} Max (V)	Current From V _{IN} (μA)		
SGM41101	1	4.2,4.225,4.3,4.325,4.4,4.45,4.5,4.55	0	5.5	<0.1	TDFN-2×2-6L	Single Battery Protection IC
SGM41102	1	4.2,4.225,4.25,4.275,4.3,4.325,4.35,4.375,4.4,4.425,4.45,4.475,4.5,4.525,4.55,4.575	0	5.5	<0.1	UTDFN-1.5×2-6L	Single Battery Protection IC
SGM41105	1	4.225,4.25,4.275,4.3,4.325,4.35,4.375,4.4, 4.425,4.45,4.475,4.5,4.525,4.55,4.575,4.6	0	6	<0.1	XTDFN-1×1-4L	Primary Protector and Switch with Shipping Mode for Tiny Li+/Poly Battery
SGM41106	1	4.225,4.25,4.275,4.3,4.325,4.35,4.375,4.4, 4.425,4.45,4.475,4.5,4.525,4.55,4.575,4.6	0	6	<0.1	XTDFN-1×1-4L	Primary Protector and Switch with Shipping Mode for Tiny Li+/Poly Battery

Buck Charger

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Charge Voltage (V)	V _{IN} Min (V)	V _{IN} Max (V)	Programmable Current (mA)	Shutdown		Foldback Current (μA)	Package	Features
							Current From V _{IN} (μA)	Status Indication			
SGM41509	1	Adj (Default 5.65)	3.84 ~ 4.608	3.9	5.5	0 ~ 5056	50	Yes	25	TQFN-4×4-24L	I ² C Controlled 5A Single-Cell Battery Charger with Power Path Management
SGM41510	1	Adj (Default 15.1)	3.84 ~ 4.608	3.9	14	0 ~ 5120	50	Yes	20	TQFN-4×4-24L	I ² C Controlled 5A Single-Cell Battery Charger with Power Path Management
SGM41511	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3000	45	Yes	20	TQFN-4×4-24L	I ² C Controlled 3A Single-Cell Battery Charger with Power Path Management
SGM41512	1	6.5,10.5,14	3.848 ~ 4.616	3.9	13.5	0 ~ 3000	45	Yes	20	TQFN-4×4-24L	I ² C Controlled 3A Single-Cell Battery Charger with Power Path Management
SGM41512A	1	6.5,10.5,14	3.848 ~ 4.616	3.9	13.5	0 ~ 3000	45	Yes	20	TQFN-4×4-24L	I ² C Controlled 3A Single-Cell Battery Charger with Power Path Management
SGM41513/A/D	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3000	38	Yes	8.5	TQFN-4×4-24L	3A Single-Cell Battery Charger with Power Path Management
SGM41515/A/D	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3000	38	Yes	8.5	TQFN-4×4-24L	3A Single-Cell Battery Charger with Power Path Management
SGM41515E	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3000	38	Yes	8.5	TQFN-4×4-24L	3A Single-Cell Battery Charger with Power Path Management
SGM41516D	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3780	55	Yes	15	WLCSP-2.0×2.4-30B	3.78A Single-Cell Battery Charger with Power Path Management
SGM41518	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 1260	40	Yes	15	WLCSP-2.0×2.4-30B	1.26A Single-Cell Battery Charger with Power Path Management
SGM41519	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3000	38	Yes	8.5	TQFN-4×4-24L	3A Single-Cell Battery Charger with Power Path Management
SGM41519A	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3000	38	Yes	8.5	TQFN-4×4-24L	3A Single-Cell Battery Charger with Power Path Management
SGM41521B	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3000	45	Yes	20	TQFN-4×4-24L	I ² C Controlled 3A Single-Cell Battery Charger with Power Path Management
SGM41522	1	13.5	4.1 ~ 4.45	4.2	13.2	0 ~ 2500		Yes	4.5	TDFN-2×3-8BL	Compact Switch, 2.5A Standalone Single-Cell Battery Charger with Safe and Reliable Charging
SGM41523	1	13.5	4.1 ~ 4.45	4.2	13.2	0 ~ 2500		Yes	4.5	TDFN-3×3-12L	Compact Switch, 2.5A Standalone Single-Cell Battery Charger with Safe and Reliable Charging
SGM41524	1	5.67	4.2 ~ 4.5	3.5	5.5	300 ~ 2300	15	Yes	<1.4	TDFN-2×3-8BL	Compact Switch Li+/Poly Battery Charger Safe and Reliable Charging
SGM41524C	1	5.67	4.2 ~ 4.5	3.5	5.5	300 ~ 2300	15	Yes	<1.4	TDFN-2×3-8BL	Compact Switch Li+/Poly Battery Charger Safe and Reliable Charging
SGM41544/D	1	6.5,10.5,14.3	3.856 ~ 4.624	3.9	14	0 ~ 5000	50	Yes	13	TQFN-4×4-24L	5A Single-Cell Battery Charger with Power Path Management

Buck Charger

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Charge Voltage (V)	V _{IN} Min (V)	V _{IN} Max (V)	Programmable Current (mA)	Shutdown Current From V _{IN} (μA)	Status Indication	Foldback Current From Battery (μA)	Package	Features
SGM41538/B	1 to 4	25.7	1.024 ~ 19.2	4.5	24	0 ~ 8128		Yes		TQFN-4×4-28BL	SMBus Hybrid Power Boost Mode Battery Charge Controller
SGM41575	1 to 4	7,12,22,26	3 ~ 18.8	3.6	24	0 ~ 5000	287	Yes	22	WLCSP-2.97×3.37-56B	I ² C Controlled, 1-4 Cells, 5A Fully Integrated Buck-Boost Battery Charger with Narrow VDC Power Path Management

Boost Charger

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Charge Voltage (V)	V _{IN} Min (V)	V _{IN} Max (V)	Programmable Current (mA)	Shutdown Current From V _{IN} (μA)	Status Indication	Foldback Current From Battery (μA)	Package	Features
SGM41528	2	6.4	6.8 ~ 9.2	3.9	6.2	0 ~ 2200	14.5	Yes	14	WLCSP-2.1×2.1-25B	I ² C Controlled 2A, 2-Cell Battery Charger with Boost Mode for USB Input
SGM41536	1 to 4	22.2	3.4 ~ 18	4.1	22	0 ~ 3000	0.95	Yes	<1	TQFN-3×3-16L	Standalone 22V, 3A 1-4 Cells Buck Battery Charger
SGM41542	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3780	55	Yes	15	TQFN-4×4-24L	3.78A Single-Cell Battery Charger with Power Path Management
SGM41543	1	6.5,10.5,14	3.856 ~ 4.624	3.9	13.5	0 ~ 3780	50	Yes	15	TQFN-4×4-24L	3.78A Single-Cell Battery Charger with Power Path Management
SGM41529	2	6.4	6.8 ~ 9.2	3.9	6.2	100 ~ 2200	20	Yes	13	TQFN-4×4-24L	I ² C Controlled 2A, 2-Cell Boost Battery Charger with Power Path, OTG for USB Input

Switching Charger

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Charge Voltage (V)	V _{IN} Min (V)	V _{IN} Max (V)	Programmable Current (mA)	Shutdown Current From V _{IN} (μA)	Status Indication	Foldback Current From Battery (μA)	Package	Features
SGM41526	2 to 4	Adj	8.4,12.6,16.8	4.5	22	0 ~ 4000	1300	Yes	18	TQFN-5.5×3.5-24L	2-4 Cells Stand-Alone Battery Charger with Integrated MOSFETs and Power Path Selector
SGM41527	1 to 4	Adj	Adj	4.5	22	0 ~ 4000	1300	Yes	18	TQFN-5.5×3.5-24L	1-4 Cells Stand-Alone Battery Charger with Integrated MOSFETs and Power Path Selector
SGM41570	1 to 4	26	1.024 ~ 19.2	3.6	24	0 ~ 8128		Yes	21	TQFN-4×4-32AL	SMBus Narrow VDC Buck-Boost Battery Charge Controller
SGM41573	1 to 4	26	1.024 ~ 19.2	3.6	24	0 ~ 8128		Yes	21	TQFN-4×4-32AL	I ² C Narrow VDC Buck-Boost Battery Charge Controller

Switched Cap Charger

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Charge Voltage (V)	V _{IN} Min (V)	V _{IN} Max (V)	Programmable Current (mA)	Shutdown Current From V _{IN} (μA)	Status Indication	Package	Features
SGM41600	1	Adj (Default 12)	3 ~ 5.5	3.3	11.5	0 ~ 6000		No	WLCSP-2.6×2.6-36B	I ² C Controlled 6A Single-Cell Switched-Capacitor Fast Charger with Bypass Mode and ADC
SGM41600A	1	Adj (Default 12)	3 ~ 5.5	3.4	11.5	0 ~ 8000		Yes	WLCSP-2.8×2.8-36B	I ² C Controlled 8A Single-Cell Switched-Capacitor Charger with Bypass Mode
SGM41600S	1	Adj (Default 12)	3 ~ 5.5	3.4	11.5	0 ~ 8000		Yes	WLCSP-2.7×2.75-36B	I ² C Controlled 8A Single-Cell Switched-Capacitor Charger with Bypass Mode
SGM41602	2	Adj (Default 6.5)	6.2 ~ 10	3.4	22	0 ~ 8000		Yes	WLCSP-3.2×4.1-80B	I ² C Controlled 8A 2-Cell Switched-Capacitor Parallel Battery Charger with Dual-Input Selector
SGM41603	2	Adj (Default 9.5)/Adj (Default 5.3)		2.8	11	0 ~ 10000	6.7	Yes	WLCSP-2.85×2.59-42B	I ² C Controlled 10A Bidirectional Switched-Capacitor Converter
SGM41603A	2	Adj (Default 10.5)/Adj (Default 5.3)		2.8	11	0 ~ 10000	6.7	Yes	WLCSP-2.85×2.59-42B-A	I ² C Controlled 10A Bidirectional Switched-Capacitor Converter
SGM41606S	1	Adj (Default 6.5)	3 ~ 5.5	3.6	12	0 ~ 8000		Yes	WLCSP-2.65×2.65-36B-A	I ² C Controlled 8A Single-Cell Switched-Capacitor Parallel Battery Charger with Dual-Input Selector
SGM41611	1	Adj (Default 11V)	3 ~ 5.5	3.4	21	0 ~ 14000	4.5	Yes	WLCSP-4.88×3.6-108B	I ² C Controlled High Voltage 4:1 14A Switched-Capacitor Charger

Linear Regulation Charger

Part Number	Number of Series Cells	Input Over-Voltage Protection Threshold (V)	Charge Voltage (V)	V _{IN} Min (V)	V _{IN} Max (V)	Programmable Current (mA)	Shutdown Current From V _{IN} (μA)	Status Indication	Foldback Current From Battery (μA)	Package	Features
SGM4056	1	6.8,10.5	4.2	4.55	26.5	100 ~ 900	200	Yes	<1	TDFN-3×3-8L, TDFN-2×3-8L, TDFN-2×2-8L, SOIC-8 (Exposed Pad)	100mA ~ 900mA, 6.8V/10.5V Over-Voltage Protection, Input Voltage up to 26.5V
SGM40560	1		3.65,4.05,4.2,4.3,4.4	2.7	7.5	5 ~ 700	7.5	Yes	<1	TDFN-2×2-8AL, SOIC-8 (Exposed Pad)	Small Capacity Compact Battery Charger for Loosely Coupled Wireless Charging or Solar Charging
SGM40561	1	10.5	4.2,4.3,4.35	4.55	26.5	5 ~ 200	180	Yes	<1	TDFN-2×2-8L	5mA ~ 200mA, 10.5V Over-Voltage Protection, Input Voltage up to 26.5V
SGM40565	1		4.2,4.35	4.55	26.5	5 ~ 400	175	Yes	<1	XTDFN-2×2-8L, TDFN-2×2-8L, WLCSP-1.3×0.7-6B	Ultra Thin Package, 5mA ~ 400mA, 4.2V/4.35V Output Voltage for Long Battery Life Application
SGM40567	1		3.65,4.05,4.2,4.3,4.4	2.7	7.5	5 ~ 700	7.5	Yes	<1	WLCSP-0.92×1.16-6B	Small Capacity Compact Battery Charger for Loosely Coupled Wireless Charging or Solar Charging
SGM41562	1	6	3.6 ~ 4.545	4.35	5.5	8 ~ 456		Yes	<1	WLCSP-1.47×1.47-9B	500mA Single-Cell Li-Ion Battery Charger with Power Path Management
SGM41562B	1	6	4.2,4.38,4.545	4.35	5.5	8 ~ 456	80	Yes	<1	WLCSP-1.52×1.52-9B	500mA Single-Cell Li-Ion Battery Charger with Power Path Management
SGM41563	1		4.2,4.25,4.3,4.35,4.4	2.7	7.5	5 ~ 700		Yes	<1	SOIC-8 (Exposed Pad)	Li+/Polymer Battery Charger with Low I _O Boost Operation
SGM41566	1	21	3.5 ~ 4.8	2.9	19.5	50 ~ 750	66	No		TDFN-2×2-8AL	Linear Regulation Battery Charger

Parallel LED Backlight Driver

Channels per Package	Part Number	V _{IN} Min (V)	V _{IN} Max (V)	LEDs per String	Shutdown Current (μA)	Switching Frequency (MHz)	LED Connection Type	Quiescent Current (mA)	Dimming Method	Package	Features
1	SGM3110	2.7	5	1	<1	0.75	Common Anode	0.06	PWM	SOT-23-6	1P Charge Pump LED Driver
4	SGM3122	2.7	5.5	1	<1	1	Common Anode	0.1	PWM	TQFN-3×3-16L	4P Charge Pump LED Driver
3	SGM3124	2.7	5.5	1	<1	1	Common Anode	0.1	PWM	TQFN-3×3-16L	3P Charge Pump LED Driver
4	SGM3127	2.5	5.5	1	<1		Common Anode	0.24	PWM	SOT-23-6	4P Low Dropout LED Driver
4	SGM3132	2.5	5	1	<5		Common Anode	0.55	One-Wire	TQFN-3×3-16L, TDFN-2×2-8L, MSOP-8	4P Ultra Low Dropout LED Driver
6	SGM3139B	2.5	5	1	<5		Common Anode	0.72	One-Wire	TQFN-3×3-16L	6P Ultra Low Dropout LED Driver
1	SGM37310	2.7	5.5	10	<1	1.2	Common Anode	0.2	PWM	TDFN-2×2-6L	35.5V High Efficiency, Boost White LED Driver

Series LED Backlight Driver

Channels per Package	Part Number	V _{IN} Min (V)	V _{IN} Max (V)	LEDs per String	Shutdown Current (μA)	Switching Frequency (MHz)	LED Connection Type	Quiescent Current (mA)	Dimming Method	Package	Features
1	SGM3732	2.7	5.5	10	<1	1.1	Common Anode	0.2	PWM	TSOT-23-6	10 LEDs per String
2	SGM3738	3	18	10	<1	0.6	Common Anode	0.24	PWM & One-Wire	TQFN-3×3-16L	2 Feedback Channels, 18V Input, Serial LED Driver
3	SGM3740	3	18	10	<1	0.6	Common Anode	0.24	PWM & One-Wire	TQFN-3×3-16L	3 Feedback Channels, 18V Input, Serial LED Driver
4	SGM3740B	3	18	10	<1	0.6	Common Anode	0.24	PWM & One-Wire	TQFN-3×3-16L	4 Feedback Channels, 18V Input, Serial LED Driver
3	SGM3741	3	18	10	<1	0.6	Common Anode	0.24	PWM & PWM	TQFN-3×3-16L	3 Feedback Channels, 18V Input, Serial LED Driver
2	SGM3743	3	18	10	<1	1.2	Common Anode	1.2	PWM & One-Wire	WLCSP-1.32×1.32-9B	2 Feedback Channels, 18V Input, Serial LED Driver
1	SGM3747	2.7	5.5	10	<1	1.1	Common Anode	0.2	PWM	TSOT-23-6	1:500 High Performance, 10 LEDs per String
1	SGM3748	2.7	5.5	10	<1	1.1	Common Anode	0.2	PWM	TDFN-2×2-8L	1:500 High Performance, 10 LEDs per String
1	SGM3749	3	20	10	<1	1.25	Common Anode	0.4	PWM	TDFN-2×2-6L, TSOT-23-6	1:500 High Performance, 10 LEDs per String, 20V Input
1	SGM3750	2.7	20	10	<1	0.65	Common Anode	0.4	PWM	TDFN-2×2-6L, TSOT-23-6	1:500 High Performance, 10 LEDs per String, 20V Input
1	SGM3752	2.7	5.5	10	<1	1.2	Common Anode	0.2	PWM	TSOT-23-6	1:250 High Performance, 10 LEDs per String
1	SGM3756	2.7	5.5	10	<1	1.2	Common Anode	0.2	PWM	TDFN-2×2-6L	1:250 High Performance, 10 LEDs per String
1	SGM3757	2.7	5.5	10	<1	1.2	Common Anode	0.2	PWM	TDFN-2×2-8L	1:250 High Performance, 10 LEDs per String
1	SGM3758	2.7	5.5	7	<1	1.2	Common Anode	0.2	PWM	TDFN-2×2-6L	1:500 High Performance, Screen Flash Mode Support
1	SGM3759	2.7	5.5	7	<1	1.2	Common Anode	0.2	PWM	TSOT-23-6	1:500 High Performance, Screen Flash Mode Support
3	SGM37603A	3	24	8	<1.5	1.2	Common Anode	0.66	PWM & I ² C	WLCSP-1.78×1.36-12B, TDFN-3×3-12L	12-Bit, 3 Feedback Channels, 24V Input, Serial LED Driver
3	SGM37603S	3	5.5	9		1.2	Common Anode	1.35	PWM & I ² C	WLCSP-1.35×1.7-12B	12-Bit, 3 Feedback Channels LED Driver
4	SGM37604A	3	24	8	<1.5	1.2	Common Anode	0.66	PWM & I ² C	WLCSP-1.78×1.36-12B, TDFN-3×3-12L	12-Bit, 4 Feedback Channels, 24V Input, Serial LED Driver
4	SGM37604S	3	5.5	9		1.2	Common Anode	1.35	PWM & I ² C	WLCSP-1.35×1.7-12B	12-Bit, 4 Feedback Channels LED Driver
1	SGM3766	2.7	5.5	10	<1	1.2	Common Anode	0.2	PWM	TSOT-23-5	1:500 High Performance, 10 LEDs per String

LED Flash Driver

Channels per Package	Part Number	Output Current per Channel (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Shutdown Current (μA)	Switching Frequency (MHz)	Quiescent Current (mA)	Package	Features
2	SGM3785S	1500 Total	3	5	<1	2	0.36	TDFN-3×2-14L	Flash Dimming Function
1	SGM37861	980	2.7	5.5	<1	4	0.7	TSOT-23-5	Tiny Inductor, One-Wire Interface
1	SGM37862	2000	2.7	5.5	<1	4	0.7	TSOT-23-5	Tiny Inductor, One-Wire Interface
1	SGM37863	1500	2.7	5.5		2/4	0.6	WLCSP-0.8×1.5-8B	1.5A Synchronous Boost LED Flash Driver
1	SGM37863A	1500	2.7	5.5			0.65	WLCSP-0.8×1.5-8B	1.5A Inductorless LED Flash Driver
2	SGM37864	2000	2.7	5.5	<1	2/4	0.72	WLCSP-1.2×1.6-12B	Dual 2A Current Source Camera Flash LED Driver
1	SGM37891	720	2.7	5.5	<1			TSOT-23-6,UTDFN-1.5×2-6L	Inductor Free, One-Wire Interface
1	SGM37891A	1240	2.7	5.5	<1			TSOT-23-6,UTDFN-1.5×2-6L	Inductor Free, One-Wire Interface
1	SGM37892	720	2.7	5.5	<1			TSOT-23-6,UTDFN-1.5×2-6L	Inductor Free, One-Wire Interface
1	SGM37892A	1240	2.7	5.5	<1			TSOT-23-6,UTDFN-1.5×2-6L	Inductor Free, One-Wire Interface
1	SGM37893A	1260	2.7	5.5	<1			UTDFN-1.5×2-6L	Inductor Free, One-Wire Interface
2	SGM37895	1000	2.7	5.5	<1			TDFN-3×3-10L,UTQFN-2.6×1.8-10AL	Inductor Free, Support I ² C Bus
2	SGM37898	2000	2.7	5.5	<1			UTQFN-2.6×1.8-10AL	Inductor Free, Support I ² C Bus

DC/DC LED Driver

Channels per Package	Part Number	V _{IN} Min (V)	V _{IN} Max (V)	Topology	V _{OUT} Min (V)	V _{OUT} Max (V)	Switching Frequency (MHz)	Quiescent Current (mA)	Package	Features
1	SGM3775	4.5	65	Boost, Buck-Boost, SEPIC, Flyback	6.5	60	0.08/0.7	1.1	TSSOP-20A (Exposed Pad)	High Accuracy, Spread Spectrum Frequency Modulation
1	SGM3775Q	4.5	65	Boost, Buck-Boost, SEPIC, Flyback	6.5	60	0.08/0.7	1.1	TSSOP-20A (Exposed Pad)	High Accuracy, Spread Spectrum Frequency Modulation

Pattern Lighting Driver

Channels per Package	Part Number	V _{IN} Min (V)	V _{IN} Max (V)	LEDs per String	Shutdown Current (μA)	LED Connection Type	Quiescent Current (mA)	Dimming Method	Package	Features
3	SGM31323	2.5	5.5	1	<1	Common Anode	0.041	I ² C	UTDFN-1.5×1.5-8L	I ² C Programmable RGB LED Driver
3	SGM31324	2.5	5.5	1	<1	Common Anode	0.041	I ² C	UTDFN-1.5×1.5-8L	I ² C Programmable RGB LED Driver with Auto Blink Mode

LCD Bias Supply

DC/DC Topology	Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
LCM Bias Power Supply	SGM3804	100	2.7	5.5	Adj (2.4 ~ 6.4)	1.6	400	<1	Active High	84	WLCSP-1.7×1.51-12B	P/N Voltage Output, 100mA Output Current Synchronous Boost

AMOLED Display Supply

Part Number	EL Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Channel Number (V)	Control Interface	Outputs	Package	Features
SGM38042B	100	2.7	5.5	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-1.51×2.10-15B	SIMO, Triple-Output, for Wearable Devices
SGM38045	70	2.7	4.8	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-1.2×2.4-17B	Inductor-Less, Triple-Output, for Wearable Devices
SGM38046	90	2.7	5.5	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-2×2-16B	Triple-Output, for Wearable Devices
SGM3851A	400	2.9	4.5	3	1-Wire	AVDD/ELVDD/ELVSS	TQFN-3×3-16L	Triple-Output, for Smart Phones
SGM3836A	600	2.9	4.5	3	1-Wire	AVDD/ELVDD/ELVSS	TQFN-3×3-16L	Triple-Output, for Smart Phones
SGM3837	600	2.9	5	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-2.0×2.0-25B	Triple-Output, for Smart Phones
SGM3838	700	2.5	4.8	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-2.5×2.5-36B	Triple-Output, for Smart Phones & PADs
SGM3839	1200	2.5	4.8	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-2.90×2.96-49B	Triple-Output, for Smart Phones & PADs
SGM3842	1000	2.9	4.8	4	1-Wire	AVDD/ELVDD/ELVSS/DVDD	WLCSP-2.5×2.9-42B	Four-Output, for Tandem AMOLED Display Smart Phones & PADs
SGM3843	1200	2.9	5	6	I ² C	AVDD/ELVDD/ELVSS/DVDD/VGL/VGL_LDO	WLCSP-3.3×3.3-64B	Six-Output, for Smart Phones & PADs
SGM3843A	1200	2.9	5	6	1-Wire	AVDD/ELVDD/ELVSS/DVDD/VGL/VGL_LDO	WLCSP-3.3×3.3-64B	Six-Output, for Smart Phones & PADs
SGM3840	1000	2.5	4.8	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-2.37×2.37-36B	Triple-Output, for Smart Phones & PADs
SGM3837S	800	2.5	5	3	1-Wire	AVDD/ELVDD/ELVSS	WLCSP-2×2-25B-A	Triple-Output, for Smart Phones & PADs

Buck Converter

DC/DC Topology	Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Buck	AAP6010A	3500	7.5	40	Adj	0.125	1560	NA	NA	95	SOIC-8	7.5V to 40V Input Supply, CC/CV Synchronous Buck Converter
Sync Buck	AAP6011A	3500	7.5	40	Adj	0.125	1560	NA	NA	95	SOIC-8 (Exposed Pad)	7.5V to 40V Input Supply, CC/CV Synchronous Buck Converter

Buck Converter

DC/DC Topology	Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Buck	AAP6013A	8000	7.5	36	Adj	Adj (0.05 ~ 0.8)	1200	1200	NA	97	TQFN-4×4-24BL	7.5V to 36V Input Supply, CC/CV Synchronous Buck PWM Converter
Sync Buck	AAP6153A	NA	7.5	40	Adj	Adj (0.1 ~ 0.8)	1200	1700	NA	97	MSOP-10 (Exposed Pad)	7.5V to 40V Input Supply, CC/CV Synchronous Buck PWM Converter
Sync Buck	SGM6010	3000	3	5.5	Adj (0.8 ~ 5.0)	0.3 ~ 2	410	<2	Active Low	95	TDFN-3×3-10L	3A, High Efficiency, Low Voltage, Synchronous Buck
Sync Buck	SGM6011	2000	2.5	5.5	3.3/Adj (down to 1.2)	1.4	300	<2	Active High	95	TDFN-3×3-10L	2A, High Efficiency, Low Voltage, Synchronous Buck
Sync Buck	SGM6012	800	2.5	5.5	1.2/1.8/3.3/Adj (down to 0.6)	1.6	30	<1	Active High	95	TSOT-23-5	800mA, High Efficiency, Low Voltage, Synchronous Buck
Sync Buck	SGM6013	800	2.5	5.5	1.2/1.8/3.3/Adj (down to 0.6)	1.6	30	<1	Active High	95	TSOT-23-5, TDFN-2×2-6L	800mA, High Efficiency, Low Voltage, Synchronous Buck
Sync Buck	SGM6014	2000	2.5	5.5	1.2/1.8/3.3/Adj (down to 1.2)	1.4	55	<2	Active High	95	TDFN-3×3-10L	2A, High Efficiency, Low Voltage, Synchronous Buck
Sync Buck	SGM6016	1200	2.7	5.5	Adj (down to 0.8)	1.6	30	<1	Active High	95	TDFN-3×3-10L	1.2A, High Efficiency, Low Voltage, Synchronous Buck
Sync Buck	SGM6019	1200	2.7	5.5	Adj (down to 0.8)	1.6	30	<1	Active High	95	TDFN-2×3-8L	1.2A, High Efficiency, Low Voltage, Synchronous Buck
Sync Buck	SGM6027	600	2.5	5.5	Adj (0.7 ~ 3.3)	1.2	0.58	<1	Active High	92	WLCSP-0.8×1.6-8B	Ultra-Low Quiescent Current, Synchronous Buck
Sync Buck	SGM6027A/B	600	2.5	5.5	Adj (0.7 ~ 3.3)	1.2	0.58	<1	Active High	92	WLCSP-0.8×1.6-8B	Ultra-Low Quiescent Current, Synchronous Buck
Sync Buck	SGM6029	1000	2	5.5	0.4 ~ 0.775/0.8 ~ 1.55/1.8 ~ 3.3	4.0/1.5	2.3	<0.25	Active High	96	WLCSP-0.74×1.09-6B	Ultra-Low Quiescent Current, Synchronous Buck
Sync Buck	SGM6036	600	1.8	5.5	1.0/1.2/3.3/Adj (1.0 ~ 3.3)	1.4	0.45		Active High	90	UTDFN-1.5×2-6L	1.4MHz, 600mA Synchronous Buck
Sync Buck	SGM6040	750	1.8	5.5	Adj (0.8 ~ 3.4)	1.5	0.06	<0.3	Active High	80	TDFN-2×1.5-8L, WLCSP-0.89×1.19-6B	1.8V to 5.5V, 750mA, 60nA Quiescent Current Synchronous Buck Converter
Non-Sync Buck	SGM6060	2000	3.8	55	Adj	0.2 to 2	126	<18	Active High	95	TDFN-3×3-10L, SOIC-8 (Exposed Pad)	55V Input, 2A Non-Synchronous Buck
Non-Sync Buck	SGM6061	1500	3.8	55	Adj (0.8 ~ 24)	2	131	18	Active High	95	TDFN-3×3-10L	1.5A, 2MHz, 55V, Buck Converter
Sync Buck	SGM61006	600	1.8	5.5	Adj (0.5 ~ V _{IN})	3.5	26	<3	Active High	90	WLCSP-0.9×1.3-6B-A	600mA, 1.8V to 5.5V Synchronous Buck
Sync Buck	SGM61007	600	2.3	5.5	1/1.1/1.15/1.2/1.23/1.35/1.82/2.05 fixed internally	5.8	22	<0.5	Active High	92	WLCSP-0.86×1.16-6B	5.8MHz, 600mA Synchronous Buck
Sync Buck	SGM61012	1200	2.3	5.5	Adj (0.5 ~ 4)	2	25	<1	Active High	95	TDFN-2×2-8AL	1.2A High-Efficiency Buck with AHP-COT Mode
Sync Buck	SGM61013	1000	2.3	5.5	1.2/1.8/3.3	10, 6.5/8	20	<1	Active High	95	WLCSP-0.9×1.2-6B	10MHz 1A Micro-Point-of-Load Buck
Sync Buck	SGM61020	2000	2.5	5.5	Adj (0.6 ~ V _{IN})	1.5	42	<1	Active High	95	SOT-23-5, SOT-563-6	2A, High Efficiency, Synchronous Buck
Sync Buck	SGM61020S	2000	2.5	5.5	Adj (0.6 ~ V _{IN})	1.5	44	<0.5	Active High	95	SOT-23-5, SOT-23-6	2A, High Efficiency, Synchronous Buck
Sync Buck	SGM61020SD SGM61020PSD	2000	2.5	5.5	Adj (0.6 ~ V _{IN})	1.5	44	<0.5	Active High	95	SOT-23-5, SOT-23-6	2A, High Efficiency, Synchronous Buck
Sync Buck	SGM61022	2000	2.3	5.5	Adj (0.5 ~ 4)	2	25	<1	Active High	95	TDFN-2×2-8AL	2A High-Efficiency Buck with AHP-COT Mode
Sync Buck	SGM61024	2000	2.4	5.5	Adj (0.6 ~ 4)	2.2	5.7/400	<1.8	Active High	95	UTDFN-1.5×1.5-6L	2.4V to 5.5V, 2A, High Efficiency, Synchronous Buck
Sync Buck	SGM61030	3000	2.5	5.5	Adj (0.6 ~ V _{IN})	2.5/2	42/410	<0.3	Active High	95	TDFN-2×2-7L	High Efficiency, 3A, Synchronous Buck
Sync Buck	SGM61031	3000	2.7	5.5	Adj	2	24	<1	Active High	95	TDFN-2×2-8AL	3A, High Efficiency, Synchronous Buck
Sync Buck	SGM61032	3000	2.5	5.5	Adj (0.6 ~ V _{IN})	1.5	45	<1	Active High	95	SOT-563-6	Low Voltage, 3A High Efficiency Synchronous Buck
Sync Buck	SGM61034	3000	2.4	5.5	Adj (0.6 ~ 4)	2.2	5.7/400	<1.8	Active High	95	UTDFN-1.5×1.5-6L	2.4V to 5.5V, 3A, High Efficiency, Synchronous Buck
Sync Buck	SGM61040	4000	2.5	5.5	Adj (0.6 ~ V _{IN})	2.5/2	42/420	<1.5	Active High	95	TDFN-2×2-7L	4A, High Efficiency, Synchronous Buck
Sync Buck	SGM61044	4000	2.4	5.5	Adj (0.6 ~ 4)	2.2	5.7/400	<1.8	Active High	95	UTDFN-1.5×1.5-6L	2.4V to 5.5V, 4A, High Efficiency, Synchronous Buck

Buck Converter

DC/DC Topology	Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Buck	SGM61060	6000	2.9	6	Adj	2	2	< 3	Active High	96	TQFN-3×3-16CL	2.9V to 6V Input, 6A Output, Synchronous Buck
Sync Buck	SGM61060Q	6000	2.9	6	Adj	0.2 to 2	2	< 3	Active High	96	TQFN-3×3-16EL	Automotive, 2.9V to 6V Input, 6A, Synchronous Buck
Sync Buck	SGM61061	6000	2.8	5.5	Adj (0.6 ~ V _{IN})	1.4	46	< 1.5	Active High	95	TQFN-2×3-12L	6A, High Efficiency, Synchronous Buck
Sync Buck	SGM61101	600	3	17	3.3/5/Adj (0.9 ~ 5.5)	2.1	22	1.2	Active High	96	TDFN-2×2-8AL	3V to 17V, 0.6A Synchronous Buck Converter with AHP-COT Control
Sync Buck	SGM61101Q	600	3	17	3.3/Adj (0.9 ~ 5.5)	2.1	22	1.2	Active High	96	TDFN-2×2-8AL	Automotive, 3V to 17V, 0.6A Synchronous Buck Converter with AHP-COT Control
Sync Buck	SGM61111	1000	3	17	1.8/3.3/5/Adj (0.9 ~ 5.5)	2.1	22	1.2	Active High	96	TDFN-2×2-8AL, MSOP-8	3V to 17V, 1A Synchronous Buck Converter with AHP-COT Control
Sync Buck	SGM61111Q	1000	3	17	3.3/Adj (0.9 ~ 5.5)	2.1	22	1.2	Active High	96	TDFN-2×2-8AL	Automotive, 3V to 17V, 1A Synchronous Buck Converter with AHP-COT Control
Sync Buck	SGM61114	1000	3	17	Adj (0.9 ~ 5.5)	1.2/2.1	32	3	Active High	96.57	TQFN-3×3-16L	3V to 17V Input, 3A Synchronous Buck converter with AHP-COT Control
Sync Buck	SGM61130	4000	4.5	18	Adj (0.8 ~ 5)	0.2 to 2	1100	3.4	Active High	95	TQFN-3.5×3.5-14L	4.5V to 18V Input, 4A, Synchronous Buck
Sync Buck	SGM61131A	3000	4.5	17	Adj (0.762 ~ 7)	0.55	340	1	Active High	93.64	TSOT-23-6	4.5V to 17V Input, 3A Output, Synchronous Buck Converter
Sync Buck	SGM61131B	3000	4.5	17	Adj (0.762 ~ 7)	0.6	360	1	Active High	93.42	TSOT-23-6	4.5V to 17V Input, 3A Output, Synchronous Buck Converter
Sync Buck	SGM61132A	3000	4.5	17	Adj (0.806 ~ 7)	0.5	340	1	Active High	93.06	SOT-563-6	4.5V to 17V Input, 3A Output, Synchronous Buck Converter
Sync Buck	SGM61132B	3000	4.5	17	Adj (0.798 ~ 7)	0.58	350	1	Active High	93.6	SOT-563-6	4.5V to 17V Input, 3A Output, Synchronous Buck Converter
Sync Buck	SGM61133	3000	4.5	17	Adj	0.7	200	7	Active High	95	SOT-563-6	3A, High Efficiency, 17V Voltage, Synchronous Buck
Sync Buck	SGM61133A	3000	4.5	17	Adj	0.7	200	7	Active High	93	SOT-23-6	3A Switch, Internal MOSFET, High Efficiency, Synchronous Buck
Sync Buck	SGM61134	3000	3	17	Adj (0.9 ~ 5.5)	1.2/2.1	32	3	Active High	96.57	TQFN-3×3-16L	3V to 17V Input, 3A Synchronous Buck converter with AHP-COT Control
Sync Buck	SGM61163	6000	4.5	18	Adj	0.2 to 2	1100	3.3	Active High	95	TQFN-3.5×3.5-14L	4.5V to 18V Input, 6A, Synchronous Buck
Sync Buck	SGM61164	6000	4.5	18	Adj	0.2 to 2	1100	3.3	Active High	95	TQFN-3.5×3.5-14L	4.5V to 18V Input, 6A, Synchronous Buck
Sync Buck	SGM611A14	12000	4.5	18	Adj (0.6 ~ 12)	0.2 to 1.6	1050	3.5	Active High	93.555	TQFN-3.5×3.5-18AL	4.5V to 18V Input, 12A, Synchronous Buck Converter
Sync Buck	SGM61220	2000	4.5	28	Adj	0.41	25	2	Active High	95	TSOT-23-6	4.5V to 28V Input, 2A Output, Synchronous Buck
Sync Buck	SGM61230	3000	4.5	28	Adj	0.41	25	2	Active High	95	TSOT-23-6	4.5V to 28V Input, 3A Output, Synchronous Buck
Non-Sync Buck	SGM61232	3000	4	28	Adj (0.8 ~ 25)	0.54	1.2	< 2.5	Active High	94	SOIC-8 (Exposed Pad), SOIC-8	28V, 3A, Buck DC/DC Converter
Non-Sync Buck	SGM61234	2000	6.5	28	5	0.05 to 1.1	105			95	SOIC-8 (Exposed Pad)	28V, 2A, 5V Fixed Output, Non-Synchronous Buck
Sync Buck	SGM61235	3000	4.5	28	Adj (0.594 ~ 7)	0.7	45	3	Active High	96	TSOT-23-6	4.5V to 28V Input, 3A Output, Synchronous Buck
Sync Buck	SGM61280	8000	4.5	23	3.3/5.1	0.47/0.72	136	64	Active High	92/96	UTQFN-3×3-12AL	8A, 23V, Synchronous Buck with 3.3V/5V LDO
Sync Buck	SGM61305	600	4	38	Adj	2	77/1750	3	Active High	91.5	SOT-23-6	4V to 38V Input, 600mA, Synchronous Buck
Sync Buck	SGM61306	600	4	38	Adj	1.1	77/1750	3	Active High	93	SOT-23-6	4V to 38V Input, 600mA, Synchronous Buck
Sync Buck	SGM61308	600	4	38	Adj	1.1	77/1750	3	Active High	93	SOT-23-6	4V to 38V Input, 600mA, Synchronous Buck
Sync Buck	SGM61330	3000	3.8	36	Adj (1 ~ 24)	0.4/2.1	28	2	Active High	95.5/92.5	TQFN-2×3-12AL	3.8V to 36V Input, 3A, Synchronous Buck
Sync Buck	SGM61330xQ	3000	3.8	36	Adj (1 ~ 24)	0.4/2.1	28	2	Active High	95.5/92.5	TQFN-2×3-12BL	Automotive, 3.8V to 36V Input, 3A, Synchronous Buck
Sync Buck	SGM61410	600	5	42	Adj (0.8 ~ 24)	1.2	14	< 1.2	Active High	95	SOT-23-6	1.2MHz, 600mA, 42V, Synchronous Buck

Buck Converter

DC/DC Topology	Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Buck	SGM61410Q	600	5	42	Adj	1.2	14	0.6	Active High	90	SOT-23-6	Automotive, 1.2MHz, 600mA, 42V Synchronous Buck
Sync Buck	SGM61411	600	5	42	Adj (0.8 ~ 20)	0.15		0.6	Active High	95	SOT-23-6	150kHz, 600mA, 42V, Synchronous Buck
Sync Buck	SGM61412	1200	4.5	42	Adj (0.83 ~ 20)	1.2	55	1.2	Active High	96	TSOT-23-6	1.2MHz, 1.2A, 42V, Synchronous Buck
Sync Buck	SGM61413	600	5	42	Adj (0.8 ~ 20)	0.56	14	0.6	Active High	95	SOT-23-6	570kHz, 600mA, 42V, Synchronous Buck
Sync Buck	SGM61430A	3000	4.5	36	Adj (0.8 ~ 24)	0.39	64	0.6	Active High	95	SOIC-8 (Exposed Pad)	4.5V to 36V Input, 3A, Synchronous Buck
Non-Sync Buck	SGM61433	3500	4.5	42	Adj (0.8 ~ 36)	0.1 to 2.5	148	2.6	Active High	88	SOIC-8 (Exposed Pad)	4.5V to 42V Input, 3.5A Non-Synchronous Buck
Non-Sync Buck	SGM61450	5000	4.5	42	Adj (0.8 ~ 36)	0.1 to 2.5	148	2.75	Active High	87.5	SOIC-8 (Exposed Pad)	4.5V to 42V Input, 5A Non-Synchronous Buck
Non-Sync Buck	SGM61630	3000	4.3	60	Adj	Adj (0.2 to 2.5)	50	2	Active High	92	SOIC-8 (Exposed Pad)	60V, 3A Buck with 50μA I _Q
Sync Buck	SGM61720	2500	6	60	Adj (up to 24)	0.3	90	3	Active High	94.5	SOIC-8 (Exposed Pad)	High Efficiency, 2.5A, 60V Input Synchronous Buck

Boost Converter

DC/DC Topology	Part Number	Switch Current Limit Typ (A)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Boost	SGM41280A		2	4.9	3.35/3.45/3.63/3.85/4.25	2.5	10	<1	Active High	95	WLCSP-1.27×1.67-12B, TQFN-3×3-16L	Wide Input Range, Boost Converter with Bypass Switch
Non-Sync Boost	SGM41286		7	14	14/19	0.022/1.41	60	<5.5	Active High	90	TDFN-3×3-8L, SOIC-8 (Exposed Pad)	LNB Supply with Tone Repeater/Synthesizer and Programmable Cable Drop Compensation
Non-Sync Boost	SGM6601	0.4	1.8	5.5	Adj (up to 38)	Up to 1	20	<1	Active High	85	TSOT-23-5, TDFN-2×2-6L	400mA Switch, Internal MOSFET, High Voltage Non-Synchronous Boost
Sync Boost	SGM6602	0.9	1.8	5.5	Adj (4.5 ~ 20)	1.1	41	<1	Active High	85	WLCSP-0.8×1.2-6B, TDFN-2×2-6L	20V Output, Synchronous Boost
Sync Boost	SGM66025	1.8	0.6	4	Adj (1.8 ~ 4)	1	30	<2	Active High	96	TSOT-23-8	1.8A, Synchronous Boost Converter with Load Disconnect
Sync Boost	SGM6603	1.1	0.9	5.5	3.3/5.0/Adj (up to 5.5)	1.2	30	<1	Active High	90	SOT-23-6	0.9V Input, Synchronous Boost
Sync Boost	SGM6603A	1.1	0.9	5.5	Adj (up to 5.5)	1.2	280	<0.5	Active High	90	SOT-23-6	0.9V Input, Synchronous Boost
Sync Boost	SGM6604	1.12	1.85	5	Adj (4.5 ~ 20)	1.3	45	<1.5	Active High	92	SOT-23-6	20V Output, Synchronous Boost
Sync Boost	SGM6605	1.1	2.7	5.5	5.0/Adj (up to 5.2)	1.2	30	<1	Active High	90	SOT-23-6	1.1A Switch, Internal MOSFET, High Efficiency, Synchronous Boost
Sync Boost	SGM66051	2.7	2.2	5.1	5.1/Adj (up to 5.1)	1.1	20	<1	Active High	90	TSOT-23-6	2.7A Switch, Internal MOSFET, High Efficiency, Synchronous Boost
Sync Boost	SGM66052	2.7	2.2	5.1	5.1/Adj (up to 5.1)	1.1	20	<1	Active High	90	UTDFN-2×1.5-6L	2.7A Switch, Internal MOSFET, High Efficiency, Synchronous Boost
Sync Boost	SGM66055	4	2.5	4.5	4.5/5.0/5.4	2.2	23	<1	Active High	93	WLCSP-1.21×1.21-9B, TDFN-2×3-8BL	4A Switch, Internal MOSFET, High Efficiency, Synchronous Boost
Sync Boost	SGM66055A	3	2.5	4.5	5.0/5.4	2.2	23	<2.5	Active High	93	WLCSP-1.21×1.21-9B	3A Switch, Internal MOSFET, High Efficiency, Synchronous Boost
Sync Boost	SGM66056	2.5	2.5	4.5	5.0	2.2	34	<1	Active High	93	WLCSP-1.21×1.21-9B	2.5A Switch, Internal MOSFET, High Efficiency, Synchronous Boost
Sync Boost	SGM6606		2.4	5	Adj (3.0 ~ 5.0)	0.66	55	<2	Active High	95	TDFN-3×3-14L	5V/2.5A, Internal MOSFET, High Efficiency, Synchronous Boost
Non-Sync Boost	SGM6607A	1.2	3	20	Adj (up to 38)	1.2	400	<1	Active High	93	TDFN-2×2-6L, TSOT-23-6	1.2A Switch, Internal MOSFET, High Voltage Non-Synchronous Boost

Boost Converter

DC/DC Topology	Part Number	Switch Current Limit Typ (A)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Boost	SGM6608	Up to 4	2.4	5	Adj (3.0 ~ 5.0)	0.66	55	<1	Active High	95	TDFN-3×3-12L	2.5A, 660kHz, Internal MOSFET, High Efficiency, Synchronous Boost
Sync Boost	SGM6609	0.5 ~ 3.5	2.4	5	Adj (3.0 ~ 5.0)	1.2	50	<1	Active High	95	TDFN-3×3-12L	2.5A, 1.2MHz, High Efficiency, Synchronous Boost with Adjustable Current Limit
Sync Boost	SGM66099C	1.16	1.5	5.2	Adj (2.5 ~ 5.5)	1.2	1.7	0.1	Active High	93	WLCSP-1.3×0.83-6B, TDFN-2×2-6AL	Synchronous Boost with Ultra-Low Quiescent Current
Sync Boost	SGM6610	10	2.7	12	Adj (4.5 ~ 12.6)	0.5	80	<1.2	Active High	91	TQFN-4.5×3.5-20L	10A, Fully-Integrated, Synchronous Boost
Sync Boost	SGM6611C	7	2.7	12	Adj (4.5 ~ 12.6)	1.1	90	<1.1	Active High	90	TQFN-2×2.5-11L	7A, Fully-Integrated, Synchronous Boost
Sync Boost	SGM6612A	10	2.7	16	Adj (4.5 ~ 20)	2.2	125	<3	Active High	95	TQFN-3×3.5-13L	10A, Fully-Integrated, Synchronous Boost
Sync Boost	SGM6613A	7	4.5	22	Adj ((V _{IN} + 5) ~ 28.5)	0.7	150	<3	Active High	90	TQFN-3×3.5-13L	28.5V, 7A Fully-Integrated, Synchronous Boost
Sync Boost	SGM6614	15	2.17	18	Adj (4.5 ~ 18)	0.5	85	<1.5	Active High	94	TQFN-3×2.5-11L	18V Output, 15A, Fully Integrated, Synchronous Boost
Non-Sync Boost	SGM6623	4.4	0.8	12	Adj (3.3 ~ 13)	0.6	47	<1	Active High	90	SOT-23-6	4.4A, Miniature Non-Synchronous Boost Converter

Buck-Boost Converter

DC/DC Topology	Part Number	Output Current Max (A)	Switch Current Limit Typ (A)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Buck-Boost	SGM62110	3	5.4	2.2	5.5	Adj (1.8 ~ 5.2)	3	18	0.1	Active High	95	WLCSP-2.21×1.40-15B	Buck-Boost Converter with I ² C Interface
Sync Buck-Boost	SGM62111	3	5.4	2.2	5.5	Adj (1.8 ~ 5.2)	3	18	0.1	Active High	95	WLCSP-2.21×1.40-15B	Buck-Boost Converter with I ² C Interface
Sync Buck-Boost	SGM62112	0.8	1.8	1.8	5.5	3.3/Adj (1.2 ~ 5.5)	1.4	40	<1	Active High	96	TDFN-3×3-10L	Current Single Inductor Buck-Boost Converter with 1.8A Switch
Sync Buck-Boost	SGM62115	0.5	1	1.8	5.5	3.3/Adj (2.5 ~ 5.5)	2.4	43	<1	Active High	95	WLCSP-1.22×1.62-12B, TQFN-2.5×2.5-12L	Single Inductor Buck-Boost Converter with 1A Switch and Adjustable Soft-Start
Sync Buck-Boost	SGM62116	0.4	1	1.8	5.5	Adj (1.2 ~ 5.5)	2.4	35	<0.5	Active High	95	WLCSP-1.11×1.84-8B	High-Efficiency Buck-Boost Converter
Sync Buck-Boost	SGM62117	2	5	2.2	5.5	Adj (1.8 ~ 5.2)	3	18	<0.5	Active High	95	TDFN-3×2-10L	High-Efficiency Buck-Boost Converter
Sync Buck-Boost	SGM62118	2	5	2.2	5.5	Adj (1.8 ~ 5.2)	3	18	<0.5	Active High	95	WLCSP-2.21×1.40-15B	High-Efficiency Buck-Boost Converter
Sync Buck-Boost	SGM62110S	3	5.84	2.2	5.5	Adj (1.8 ~ 5.2)	3	22	<1	Active High	95	WLCSP-1.47×2.21-15B	Buck-Boost Converter with I ² C Interface

Inverting Converter

Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
SGM660	410	2.8	5.5	Adj (-0.8 ~ -5.2)	1.8/1.6 (Default)/1.4	270	<1	Active High	85	WLCSP-0.9×1.3-6B	Buck-Boost Converter for Negative Output Voltage
SGM3204	200	1.4	5.5	-V _{IN}	0.95	1500	<1	Active High	80	SOT-23-6	Unregulated 200mA Charge Pump Voltage Inverter
SGM3206	60	1.4	5.5	-V _{IN}	0.047	115		None	85	SOT-23-5	Unregulated 60mA Charge Pump Voltage Inverter

Inverting Converter

Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
SGM3207	60	1.4	5.5	-V _{IN}	0.019	72		None	85	SOT-23-5	Unregulated 60mA Charge Pump Voltage Inverter
SGM3209	100	3	18	-V _{IN}	0.12 ~ 1.25	900	<1.2	Active High	90	SOIC-8,TDFN-2×2-8L	Unregulated Inverter, Programmable Frequency, 100mA

Switch Mode Buck Controller

DC/DC Topology	Part Number	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Sync Buck	SGM63600	4.3	60	Adj (≤32)	Adj (0.1 ~ 1)	1100	1.5	Active High	95	TQFN-3×4-20L	Adjustable Frequency, External Frequency Sync, Hiccup Current Limit
Sync Buck	SGM64200	3	20	Adj (0.6 ~ 5.4)	Adj (0.1 ~ 1)	5200	170	Active High	90	TQFN-5×5-32AL	Enable, Frequency Synchronization, Multiple Outputs, Phase Interleaving, Power Good, Remote Sense
Sync Buck	SGM25811	10.8	13.2	5,3,3,1.2	Adj (0.3 ~ 1)	1000	137	Active High	95	TDFN-2×2-8L,TDFN-3×3-8BL,SOIC-8 (Exposed Pad)	High-Voltage MOSFET Drivers for Buck Converter Applications

Switch Mode Boost Controller

DC/DC Topology	Part Number	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
Non-Sync Boost	SGM6630	2.97	48	Adj	Adj (0.1 ~ 1)	640	3	Active High	95	MSOP-10	High-Efficiency, Non-Synchronous Boost, SEPIC and Flyback Controller
Non-Sync Boost	SGM6630Q	2.97	48	Adj	Adj (0.1 ~ 1)	640	3	Active High	95	MSOP-10	Automotive, High-Efficiency, Non-Synchronous Boost, SEPIC and Flyback Controller

Charge Pump

Converters per Package	Part Number	Output Current Max (mA)	Shutdown	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (kHz)	Quiescent Current (μA)	Shutdown Current (μA)	Output Type	Package	Features
1	SGM3110	100	Yes	2.7	5	5	750	60	<1	Regulated	SOT-23-6	Low Noise, Doubler/White LED Driver
1	SGM3111	150	Yes	1.8	5.5	3.3	1200	60	<0.6	Regulated	TDFN-2×2-6FL	Regulated Buck/Boost Charge Pump Converter
1	SGM3112	200	Yes	2.7	5.5	5	2200	60	<1	Regulated	TDFN-2×2-8AL	Low Noise, Load Disconnect, 2200kHz, 200mA
2	SGM3200	500	Yes	2.7	5	5	1700	70	<2	Regulated	TDFN-3×3-8L	Low Noise, Doubler/White LED Driver
1	SGM3204	200	Yes	1.4	5.5	-V _{IN}	950	1500	<1	Unregulated	SOT-23-6	Unregulated Inverter, 950kHz, 200mA
1	SGM3206	60	No	1.4	5.5	-V _{IN}	47	115	NA	Unregulated	SOT-23-5	Unregulated Inverter, 47kHz, 60mA
1	SGM3207	60	No	1.4	5.5	-V _{IN}	19	72	NA	Unregulated	SOT-23-5	Unregulated Inverter, 19kHz, 60mA
1	SGM3209	100	Yes	3	18	-V _{IN}	120 ~ 1250	900	<1.2	Unregulated	SOIC-8,TDFN-2×2-8L	Unregulated Inverter, Programmable Frequency, 100mA

APD Bias IC

Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Efficiency Max (%)	Package	Features
SGM41281	10	2.8	5.5	Adj (up to 70)	0.85	1300	0.02	Active High	65	TQFN-3×3-16L	70V, 2.5mA Precision Protection APD Bias Dual-Gain Current Mirror with Output Enable
SGM41282C	10	2.8	5.5	Adj (up to 70)	0.85	1300	<1	Active High	61	TQFN-3×3-16L	70V, 2.5mA Precision Protection APD Bias Dual-Gain Track/Hold Current Mirror
SGM41282S	10	2.8	5.5	Adj (up to 70)	0.85	1400	<1	Active High	61	TQFN-3×3-16L	70V, 2.5mA Precision Protection APD Bias Dual-Gain Track/Hold Current Mirror
SGM41283	10	2.7	5.5	Adj (up to 70)	0.85	200	<1	Active High	67	TQFN-3×3-16L	70V, Boost Converter and Current Monitor for APD Bias Applications
SGM41285	10	2.8	5.5	Adj (up to 70)	0.85	190	<1	Active High	69	TQFN-3×3-16L	70V, 300mW Boost Converter and Current Monitor for APD Bias Applications

EML Bias IC

Part Number	Output Current Max (mA)	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Package	Features
SGM41291	0 ~ 239.5	2.85	5.5	Adj (-0.2 ~ -4.08)	1	44	WLCSP-1.25×1.65-12B	Low Voltage, Wide Input Range, Front-End DC/DC
SGM41295	0 ~ 239.5	2.85	5.5	Adj (-0.2 ~ -3.2)	1.75	100	TQFN-3×3-16L	DC Bias Controller for EML
SGM41295S	0 ~ 239.5	2.85	5.5	Adj (-0.2 ~ -3.2)	2	100	TQFN-3×3-16L	DC Bias Controller for EML

TEC Driver

Part Number	Output Current Max (mA)	DC/DC Topology	V _{IN} Min (V)	V _{IN} Max (V)	Output Voltage (V)	Switching Frequency (MHz)	Quiescent Current (μA)	Shutdown Current (μA)	Enable Logic	Package	Features
SGM41293	1500	BUCK, LDO	2.7	5.5	Adj	2	1300	200	Active High	WLCSP-2.55×2.55-25B	1.5A Thermoelectric Cooler (TEC) Driver
SGM41296	1500	BUCK, LDO	2.7	5.5	Adj	1.12	830	160	Active High	TQFN-2×3-16L	1.5A Thermoelectric Cooler (TEC) Driver
SGM41298	1500	BUCK, LDO	2.7	5.5	Adj	2	1300	200	Active High	WLCSP-2.55×2.55-25B	1.5A Thermoelectric Cooler (TEC) Driver
SGM41299B	3500	BUCK, LDO	2.7	5.5	Adj	2	1300	200	Active High	TQFN-6×6-36L	3A Thermoelectric Cooler (TEC) Driver
SGM41299C	3500	BUCK, LDO	2.7	5.5	Adj	2	1300	200	Active High	TQFN-6×6-36L	3A Thermoelectric Cooler (TEC) Driver

Isolation Transformer Driver

Drivers per Package	Part Number	Output Power (W)	V _{CC} Range (V)	External Resistance (kΩ)	Input Frequency (kHz)	Logic Low Input Voltage (V)	Logic High Input Voltage (V)	I _{CC} Typ (mA)	Package	Features
1	SGM46000	3	2.5 ~ 5.5	5 ~ 390	200 ~ 2000	0.3	2	0.6	SOIC-8 (Exposed Pad), TDFN-2×3-8BL	3W Output Power, Programmable Oscillator Frequency Isolated Power Supply

Power Management Unit (PMU)

Power Rail Number	Part Number	Input Voltage Range (V)	Output Voltage Range (V)	Quiescent Current (μA)	Shutdown Current (μA)	Switching Frequency (MHz)	Interface Type	Enable Logic	Package	Features
7	SGM38120	CH1/2: 2.5 ~ 5.5 CH3/4/6: 0.7 ~ 2.0 CH5/7: 1.8 ~ 5.5	CH1/2: 0.528 ~ 1.504 CH3/4/6: 1.504 ~ 3.544 CH5/7: 1.2 and 1.504 ~ 3.544	270	0.25		I ² C	Active High	WLCSP-1.83×1.51-20B	Dedicated Camera PMIC
4	SGM38121	CH1/2: 0.7 ~ 2 CH3/4: 3 ~ 5.5	CH1/2: 0.528 ~ 1.504 CH3/4: 1.504 ~ 3.424	340	0.13		I ² C	Active High	TDFN-2×2-10L	4-Channel LDO PMIC for Camera Applications
1	SGM41280	2.2 ~ 4.9	Adj (3.35/3.45/3.63/3.85(Default)/4.25)	10	<1	2.5		Active High	WLCSP-1.27×1.67-12B,TQFN-3×3-16L	Wide Input Range, Boost Converter with Bypass Switch
1	SGM41664	2.8 ~ 16	Up to 36	267	<2	0.25 ~ 1.5	I ² C	Active High	TQFN-4×4-25L	I ² C Power Backup Manager with High Current Bidirectional DC/DC Converter and Capacitor Measurement Capability
1	SGM41664A	2.8 ~ 16	Up to 36	267	<2	0.25 ~ 1.5	I ² C	Active High	TQFN-4×4-25L	I ² C Power Backup Manager with High Current Bidirectional DC/DC Converter and Capacitor Measurement Capability

Motor Driver

Part Number	Full Bridges per Package	Motor Type	V _{CC} Min (V)	V _{CC} Max (V)	RMS Output Current (A)	Peak Output Current (A)	Control Interface	R _{DS(ON)} (HS+LS) per Channel (mΩ)	Operating Temperature Range (°C)	Package	Features
SGM42500	1	DC Motor	7	40		3.6	PWM	410	-40 to +125	SOIC-8 (Exposed Pad)	3.6A Brushed DC Motor Driver
SGM42501	1	DC Motor	7	40		3.6	PH/EN	410	-40 to +125	SOIC-8 (Exposed Pad)	3.6A Brushed DC Motor Driver
SGM42505	1	DC Motor	7	40		3.6	PWM	410	-40 to +125	SOIC-8 (Exposed Pad)	3.6A Brushed DC Motor Driver
SGM42506	1	DC Motor	7	40		3.6	PH/EN	410	-40 to +125	SOIC-8 (Exposed Pad)	3.6A Brushed DC Motor Driver
SGM42507	1	DC Motor	1.9	7.5		1.5	PH/EN	555	-40 to +125	SC70-6,TSOT-23-6	1.5A, 7.5V H-Bridge Driver for Motor/Coil
SGM42512	1	DC Motor	1.9	5.5		1.5	PH/EN	545	-40 to +125	TSOT-23-6	Single H-Bridge Motor Driver
SGM42513	1	DC Motor	1.9	5.5		1.5	PWM	545	-40 to +125	TSOT-23-6	Single H-Bridge Motor Driver
SGM42540	1	DC Motor	8	45	3.5	4.5	PH/EN	210	-40 to +85	TSSOP-28 (Exposed Pad)	Single H-Bridge DC Motor Driver
SGM42609	1	DC Motor	2.7	24	1.5	2	PWM	480	-40 to +125	MSOP-10,TDFN-3×3-10L	Single H-Bridge Motor Driver
SGM42541	2	DC/Stepper Motor	8	45		2	PWM	420	-40 to +85	TSSOP-28 (Exposed Pad)	Dual H-Bridge Driver
SGM42544	4 Half	DC/Stepper Motor	8	45	1.75	2	EN/IN	440	-40 to +125	TSSOP-28 (Exposed Pad)	Quad Half-Bridge Driver
SGM42600	2	DC/Stepper Motor	2.7	24	1.5	2	PWM	410	-40 to +125	TSSOP-16 (Exposed Pad),TQFN-4×4-16L	Dual H-Bridge Motor Driver
SGM42610	2	DC/Stepper Motor	2.5	16	0.85	1.2	4×PWM	1540	-40 to +85	MSOP-10 (Exposed Pad),SSOP-10	Stepper Motor Driver
SGM42611A	2	DC/Stepper Motor	2.5	16	0.85	1.2	4×PWM	1540	-40 to +85	MSOP-10 (Exposed Pad),SSOP-10	Stepper Motor Driver
SGM42611B	2	DC/Stepper Motor	2.5	16	0.85	1.2	2×PWM	1540	-40 to +85	MSOP-10 (Exposed Pad),SSOP-10	Stepper Motor Driver
SGM42633	2	DC/Stepper Motor	2.5	12	0.6	1	PWM	1610	-40 to +125	TSSOP-16 (Exposed Pad),TQFN-3×3-16L	Dual H-Bridge Motor Driver
SGM42606	1	DC Motor	2	12	3	6	PWM	72	-40 to +85	TQFN-5.5×3.5-24L	H-Bridge Motor Driver
SGM42622B	2	Stepper Motor	1.8	12	1.3	2	STP/DIR	500	-40 to +85	TQFN-3×3-16L	Stepper Motor Driver with 1/256 Micro-Stepping

Motor Driver

Part Number	Full Bridges per Package	Motor Type	V _{CC} Min (V)	V _{CC} Max (V)	RMS Output Current (A)	Peak Output Current (A)	Control Interface	R _{DS(ON)} (HS+LS) per Channel (mΩ)	Operating Temperature Range (°C)	Package	Features
SGM42613	2	Stepper Motor	8.2	36	2	2.5	PH/EN	490	-40 to +125	TSSOP-28 (Exposed Pad)	Dual H-Bridge Motor Controller
SGM42630	2	Stepper Motor	8	35	1.8	2.6	STP/DIR	290	-40 to +85	TSSOP-28 (Exposed Pad)	Stepper Motor Driver with 1/8 Microstepping and Auto Decay Mode
SGM42553	3	Three-Phase Brushless DC Motor	8	45		3	EN/IN	360	-40 to +125	TSSOP-28 (Exposed Pad), TQFN-6×6-36AL	3A Triple Half-Bridge Motor Driver
SGM42560	3	Three-Phase Brushless DC Motor	3	18	2.5	5	PWM/EN	170	-40 to +125	TQFN-3×4-24L	18V, 2.5A Three-Phase Power Stage
SGM42561	3	Three-Phase Brushless DC Motor	3	18	2.5	5	HS/LS	170	-40 to +125	TQFN-3×4-24L	18V, 2.5A Three-Phase Power Stage
SGM42562	3	Three-Phase Brushless DC Motor	3	18	2.5	5	Hall-Signal	170	-40 to +125	TQFN-3×4-24L	18V, 2.5A Three-Phase Power Stage

Gate Driver

Part Number	Number of Channels	Output Peak Current (A)	V _{CC} (V)	Rise Time (ns)	Fall Time (ns)	Logic Low Input Voltage (V)	Logic High Input Voltage (V)	Input Hysteresis (V)	I _{CC} Typ (mA)	Package	Features
SGM48005	1	9/12	3 ~ 15	2.9	3.6	1.2	2.4	0.12	1	TSSOP-14	Zero Overshoot, Large Swing SiC & IGBT Driver with Precision Dual Power Rail Generation Circuit
SGM48010	1	8/12	4.5 ~ 20	10	10	0.9	2.5	0.45	0.13	TDFN-2×2-6L	Single-Channel High Speed Low-side Gate Driver
SGM48013C	1	8/13	4.5 ~ 20	7	8	0.7	2.5	0.45	0.09	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48017C	1	8/13	4.5 ~ 20	7	8	0.7	2.5	0.45	0.09	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48018C	1	8/13	4.5 ~ 20	7	8	0.7	2.5	0.45	0.09	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48019C	1	8/13	4.5 ~ 20	7	8	0.7	2.5	0.45	0.09	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48209	2	4/5	8 ~ 17	6.5	4.5	1.55	2.25	0.7	0.13	SOIC-8, TDFN-4×4-8AL	120V Boot, 4A Peak, High Frequency High-side and Low-side Driver
SGM48211	2	4/5	8 ~ 17	6.5	4.5	1.55	2.25	0.7	0.13	SOIC-8, SOIC-8 (Exposed Pad), TDFN-4×4-8AL	120V Boot, 4A Peak, High Frequency High-side and Low-side Driver
SGM48510	1	11/6	4.5 ~ 24	4	4	1.3 [†]	2.1 [†]	0.8	0.5	TDFN-2×2-8AL, SOIC-8	11A High Speed Low-side MOSFET Driver
SGM48520	1	6/4	4.75 ~ 5.25	0.55	0.48				0.055	WLCSP-0.88×1.28-6B, TDFN-2×2-6AL	5V Low-side GaN and MOSFET Driver
SGM48521	1	7/6	4.5 ~ 5.5	0.5	0.46	1.4 [†]	2.15 [†]	0.75	0.075	WLCSP-0.88×1.28-6B, TDFN-2×2-6AL	5V Low-side GaN and MOSFET Driver
SGM48521Q	1	7/6	4.5 ~ 5.5	0.5	0.46	1.4 [†]	2.15 [†]	0.75	0.075 ^{††}	WLCSP-0.88×1.28-6B, TDFN-2×2-6DL	Automotive, 5V Low-side GaN and MOSFET Driver
SGM48522	2	7/6	4.5 ~ 5.5	0.75	0.56	1.4 [†]	2.1 [†]	0.7	0.1	TQFN-2×2-10BL	Dual-Channel 5V Low-side GaN and MOSFET Driver
SGM48522Q	2	7/6	4.5 ~ 5.5	0.72	0.57	1.4 [†]	2.1 [†]	0.7	0.05	TQFN-2×2-10AL	Automotive, Dual-Channel 5V Low-side GaN and MOSFET Driver
SGM48523	2	5	4.5 ~ 18	8	8	1.2 [†]	2 [†]	0.8	0.036	SOIC-8, MSOP-8 (Exposed Pad), TDFN-3×3-8L	Dual-Channel High Speed Low-side Gate Driver
SGM48523C	2	5	8.5 ~ 18	7	7	1.2 [†]	2.1 [†]	0.9	0.075	SOIC-8, MSOP-8 (Exposed Pad), TDFN-3×3-8L	Dual-Channel High Speed Low-side Gate Driver
SGM48524A	2	5	4.5 ~ 18	8	8	1.2 [†]	2 [†]	0.8	0.038	SOIC-8, MSOP-8 (Exposed Pad), TDFN-3×3-8L	Dual-Channel High Speed Low-side Gate Driver

Notes: † Typical Values @ 25°C
†† Max Value

Gate Driver

Part Number	Number of Channels	Output Peak Current (A)	V _{CC} (V)	Rise Time (ns)	Fall Time (ns)	Logic Low Input Voltage (V)	Logic High Input Voltage (V)	Input Hysteresis (V)	I _{CC} Typ (mA)	Package	Features
SGM48524C	2	5	8.5 ~ 18	7	7	1.2 [†]	2.1 [†]	0.9	0.074	SOIC-8,MSOP-8 (Exposed Pad),TDFN-3×3-8L	Dual-Channel High Speed Low-side Gate Driver
SGM48524D	2	5	4.5 ~ 18	7	7	1.2 [†]	2.1 [†]	0.9	0.075	SOIC-8,MSOP-8 (Exposed Pad),TDFN-3×3-8L	Dual-Channel High Speed Low-side Gate Driver
SGM48524Q	2	5	4.5 ~ 18	7	8	1.2 [†]	2 [†]	0.8	0.038	SOIC-8	Automotive, Dual-Channel High Speed Low-side Gate Driver
SGM48525	2	5	4.5 ~ 18	8	8	1.2 [†]	2 [†]	0.8	0.049	SOIC-8,MSOP-8 (Exposed Pad),TDFN-3×3-8L	Dual-Channel High Speed Low-side Gate Driver
SGM48526	2	5	4.5 ~ 18	8	8	1.2 [†]	2 [†]	0.8	0.038	TDFN-3×3-8L	Dual-Channel High Speed Low-side Gate Driver
SGM48534A	1	4.2/2.6	4.5 ~ 20	5	5	1.0 [†]	2.1 [†]	1.1	0.45	SOT-23-6	Low-side Gate Driver with Fast Response Over-Current Protection and -0.25V Over-Current Threshold
SGM48534B	1	4.2/2.6	4.5 ~ 20	5	5	1.0 [†]	2.1 [†]	1.1	0.45	SOT-23-6	Low-side Gate Driver with Fast Response Over-Current Protection and +0.5V Over-Current Threshold
SGM48535A	1	4.2/2.6	12.7 ~ 20	5	5	1.0 [†]	2.1 [†]	1.1	0.45	SOT-23-6	Low-side Gate Driver with Fast Response Over-Current Protection and -0.25V Over-Current Threshold
SGM48535B	1	4.2/2.6	12.7 ~ 20	5	5	1.0 [†]	2.1 [†]	1.1	0.45	SOT-23-6	Low-side Gate Driver with Fast Response Over-Current Protection and +0.5V Over-Current Threshold
SGM48536	1	4/8	9 ~ 25	9.5	8	1.23 [†]	2.05 [†]	0.82	0.048	SOT-23-6	Single-Channel High Speed Low-side Gate Driver
SGM48536BQ	1	4/8	9 ~ 25	9.5	8	1.23 [†]	2.05 [†]	0.82	0.048	SOT-23-6	Automotive, Single-Channel High Speed Low-side Gate Driver
SGM48536CQ	1	4/8	13.5 ~ 25	9.5	8	1.23 [†]	2.05 [†]	0.82	0.08	SOT-23-6	Automotive, Single-Channel High Speed Low-side Gate Driver
SGM48537	1	4/8	9 ~ 25	9.5	8	1.2 [†]	2 [†]	0.8	0.048	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48538	1	4/8	9 ~ 25	9.5	8	1.2 [†]	2 [†]	0.8	0.083	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48539	1	4/8	9 ~ 25	9.5	8	1.23 [†]	2.05 [†]	0.82	0.048	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48540	1	4/8	9 ~ 25	9.5	8	1.23 [†]	2.05 [†]	0.82	0.048	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48541	1	4/8	4.5 ~ 25	7	6.5	1.2 [†]	2 [†]	0.8	0.027	SOT-23-6,TDFN-3×3-6AL	Single-Channel High Speed Low-side Gate Driver
SGM48542	1	4/8	4.5 ~ 25	7	6.5	1.25 [†]	2.05 [†]	0.8	0.034	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48543	1	4/8	4.5 ~ 25	7	6.5	1.25 [†]	2.05 [†]	0.8	0.027	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48544	1	4/8	4.5 ~ 25	7	6.5	1.25 [†]	2.05 [†]	0.8	0.027	SOT-23-5	Single-Channel High Speed Low-side Gate Driver
SGM48545	1	4/8	4.5 ~ 25	7	6.5	1.25 [†]	2.05 [†]	0.8	0.032	SOT-23-5	Single-Channel High Speed Low-side Gate Driver

Note: † Typical Values @ 25°C

High-Side Driver

Part Number	Number of Channels	V _{CC} Min (V)	V _{CC} Max (V)	R _{DS(ON)} Typ (mΩ)	Absolute Supply Voltage Max (V)	Drain Current Limit Typ (V)	Control Interface	Package	Features
SGM42203	2	5	36	80/CH	60	22	PWM	TSSOP-16A (Exposed Pad)	2-Channel High-side Driver with Analog Current Sense for 24V Applications
SGM42203Q	2	5	36	80/CH	60	22	PWM	TSSOP-16A (Exposed Pad)	2-Channel High-side Driver with Analog Current Sense for 24V Automotive Applications

Low-Side Driver

Part Number	Number of Channels	V _{CC} Min (V)	V _{CC} Max (V)	R _{DS(ON)} Typ (mΩ)	Clamp Voltage Typ (V)	Drain Current Limit Typ (A)	Control Interface	Package	Features
SGM42401Q	1	1.8	14	90	42	3.5	PWM	SOT-223-3	Automotive Low-side Driver with Self-Protection Featuring Temperature and Current Limit
SGM42402Q	2	1.8	14	110	42	3.2/4.2	PWM	SOIC-8, SOIC-8 (Exposed Pad)	Automotive Low-side Driver with Dual Self-Protection Featuring Temperature and Current Limit
SGM42403	4	8.5	50	850	70	2.2	PWM	TSSOP-16 (Exposed Pad), SOIC-20	Quad Low-side Driver
SGM42403Q	4	6.5	50	850	70	2.2	PWM	TSSOP-16A (Exposed Pad)	Automotive, Quad Low-side Driver
SGM42406	8	8	38	1500	50	1	Serial	TSSOP-16, TSSOP-16 (Exposed Pad)	38V, 8-Channel Serial Interface Low-side Driver

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