Quad buffer/line driver with 5 V tolerant input/outputs; 3-stateRev. 11 — 20 September 2021Product data sheet

### 1. General description

The 74LVC126A is a quad buffer/line driver with 3-state outputs controlled by the output enable inputs (nOE). A LOW on nOE causes the outputs to assume a high impedance OFF-state. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

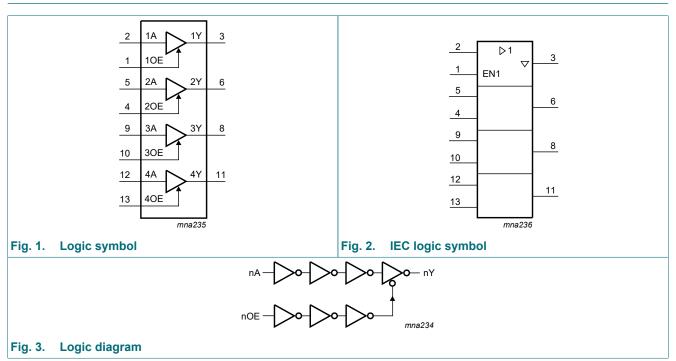
### 2. Features and benefits

- Overvoltage tolerant inputs to 5.5 V
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- Complies with JEDEC standard:
  - JESD8-7A (1.65 V to 1.95 V)
  - JESD8-5A (2.3 V to 2.7 V)
  - JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115B exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

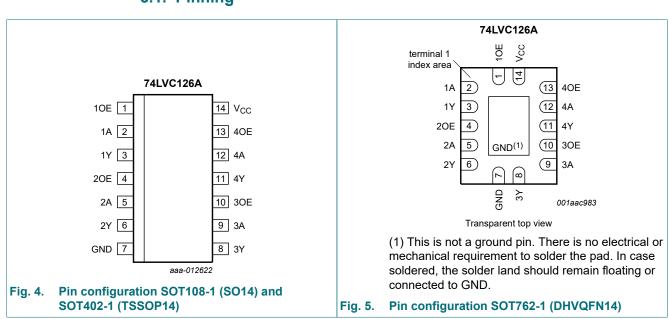
## 3. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC126AD	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74LVC126APW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1
74LVC126ABQ	-40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 × 3 × 0.85 mm	SOT762-1

# 4. Functional diagram



## 5. Pinning information



### 5.1. Pinning

### 5.2. Pin description

Table 2. Pin description		
Symbol	Pin	Description
10E, 20E, 30E, 40E	1, 4, 10, 13	data enable input (active HIGH)
1A, 2A, 3A, 4A	2, 5, 9, 12	data input
1Y, 2Y, 3Y, 4Y	3, 6, 8, 11	data output
GND	7	ground (0 V)
V <sub>CC</sub>	14	supply voltage

### 6. Functional description

### Table 3. Function selection

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state

Inputs		
nOE	nA	nY
Н	L	L
Н	Н	Н
L	X	Z

# 7. Limiting values

#### Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions	Min	Мах	Unit
V <sub>CC</sub>	supply voltage		-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>1</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V	-	±50	mA
Vo	output voltage	output HIGH or LOW-state [2]	-0.5	V <sub>CC</sub> + 0.5	V
		output 3-state [2]	-0.5	+6.5	V
I <sub>O</sub>	output current	$V_{O} = 0 V \text{ to } V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [3	] -	500	mW

[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

[2] The output voltage ratings may be exceeded if the output current ratings are observed.

[3] For SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C.

For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C. For SOT762-1 (DHVQFN14) package: P<sub>tot</sub> derates linearly with 9.6 mW/K above 98 °C.

# 8. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V <sub>CC</sub>	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	0	-	V <sub>CC</sub>	V
		output 3-state	0	-	5.5	V
T <sub>amb</sub>	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.7 V	0	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 3.6 V	0	-	10	ns/V

#### Table 5 D ما م ما ----

# 9. Static characteristics

### **Table 6. Static characteristics**

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	) °C to +85	°C	-40 °C to	+125 °C	Unit
			Min	Тур <mark>[1]</mark>	Max	Min	Мах	1
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	V
	voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65V <sub>CC</sub>	-	-	0.65V <sub>CC</sub>	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	0.12	V
	voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35V <sub>CC</sub>	-	0.35V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	V <sub>CC</sub> - 0.2	-	-	V <sub>CC</sub> - 0.3	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	1.05	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	1.8	-	-	1.65	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V	2.2	-	-	2.05	-	V
		I <sub>O</sub> = -18 mA; V <sub>CC</sub> = 3.0 V	2.4	-	-	2.25	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.2	-	-	2.0	-	V
V <sub>OL</sub>	LOW-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.65	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.6	-	0.8	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.4	-	0.6	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.8	V

### Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

Symbol	Parameter	Conditions	-40	) °C to +85	°C	-40 °C to	Unit	
			Min	Тур [1]	Max	Min	Max	
lı	input leakage current	$V_{CC}$ = 3.6 V; V <sub>I</sub> = 5.5 V or GND	-	±0.1	±5	-	±20	μA
I <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH} \text{ or } V_{IL}; V_{CC} = 3.6 \text{ V};$ $V_O = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μA
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 \text{ V}; \text{ V}_{1} \text{ or } \text{ V}_{0} = 5.5 \text{ V}$	-	±0.1	±10	-	±20	μA
I <sub>CC</sub>	supply current	$V_{CC}$ = 3.6 V; $V_I$ = $V_{CC}$ or GND; $I_O$ = 0 A	-	0.1	10	-	40	μA
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_{CC} = 1.65 V \text{ to } 3.6 V;$ $V_I = V_{CC} - 0.6 V; I_O = 0 A$	-	5	500	-	5000	μA
CI	input capacitance	$V_{CC}$ = 0 V to 3.6 V; V <sub>I</sub> = GND to V <sub>CC</sub>	-	4.0	-	-	-	pF

[1] All typical values are measured at V<sub>CC</sub> = 3.3 V (unless stated otherwise) and T<sub>amb</sub> = 25 °C.

# **10.** Dynamic characteristics

### Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 8.

Symbol	Parameter	Conditions	-4(	0 °C to +85	°C	-40 °C to	o +125 ℃	Unit
			Min	Typ [1]	Мах	Min	Max	
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 6 [2]						
		V <sub>CC</sub> = 1.2 V	-	11.0	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	5.2	10.8	1.5	12.6	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	2.8	5.6	1.0	6.6	ns
		V <sub>CC</sub> = 2.7 V	1.5	2.7	5.2	1.5	6.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	2.4	4.7	1.0	6.0	ns
t <sub>en</sub>	enable time	nOE to nY; see Fig. 7 [2]						
		V <sub>CC</sub> = 1.2 V	-	15.0	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.4	6.7	12.9	2.4	15.0	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.0	3.8	7.1	2.0	8.3	ns
		V <sub>CC</sub> = 2.7 V	1.5	3.1	6.3	1.5	8.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	3.1	5.7	1.0	7.5	ns
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 7 [2]						
		V <sub>CC</sub> = 1.2 V	-	8.0	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3.3	10.0	1.0	11.5	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	1.8	5.6	0.5	6.5	ns
		V <sub>CC</sub> = 2.7 V	1.5	3.4	6.7	1.5	8.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.3	2.5	6.0	1.3	7.5	ns

### Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

Symbol	Parameter	Conditions		ter Conditions -40 °C to +85 °C			-40 °C to	Unit	
				Min	Typ [1]	Max	Min	Max	1
t <sub>sk(o)</sub>	output skew time	V <sub>CC</sub> = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C <sub>PD</sub>	power dissipation	per buffer; $V_I$ = GND to $V_{CC}$	[4]						
	capacitance	V <sub>CC</sub> = 1.65 V to 1.95 V		-	6.0	-	-	-	pF
		V <sub>CC</sub> = 2.3 V to 2.7 V		-	9.3	-	-	-	pF
		V <sub>CC</sub> = 3.0 V to 3.6 V		-	12.2	-	-	-	pF

[1] Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.2 V, 1.8 V, 2.5 V, 2.7 V, and 3.3 V respectively. [2]

 $t_{\text{pd}}$  is the same as  $t_{\text{PLH}}$  and  $t_{\text{PHL}}.$ 

 $t_{en}$  is the same as  $t_{PZL}$  and  $t_{PZH}$ .

 $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .

Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design. [3]

 $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$  where: [4]

 $f_i$  = input frequency in MHz;  $f_o$  = output frequency in MHz

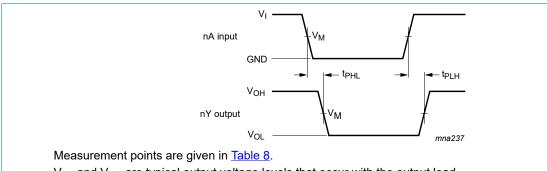
CL = output load capacitance in pF

V<sub>CC</sub> = supply voltage in Volts

N = number of inputs switching

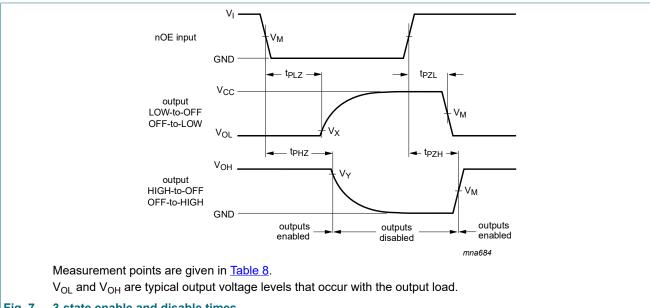
 $\Sigma(C_L \times V_{CC}^2 \times f_0) = \text{sum of the outputs}$ 

## 10.1. Waveforms and test circuit



V<sub>OL</sub> and V<sub>OH</sub> are typical output voltage levels that occur with the output load.

#### Fig. 6. The input nA to output nY propagation delays

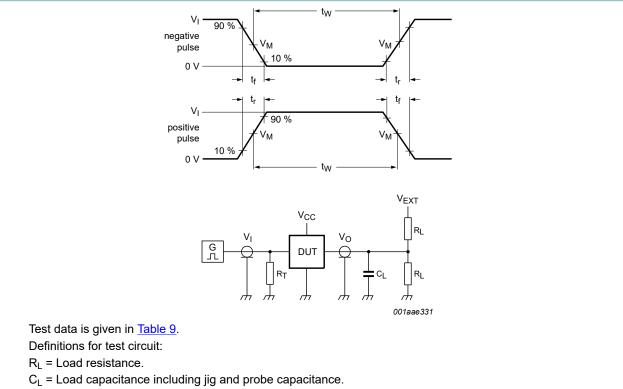


3-state enable and disable times Fig. 7.

### Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

### Table 8. Measurement points

Supply voltage	Input	Output			
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>	
V <sub>CC</sub> < 2.7 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V	
V <sub>CC</sub> ≥ 2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V	



 $R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator.

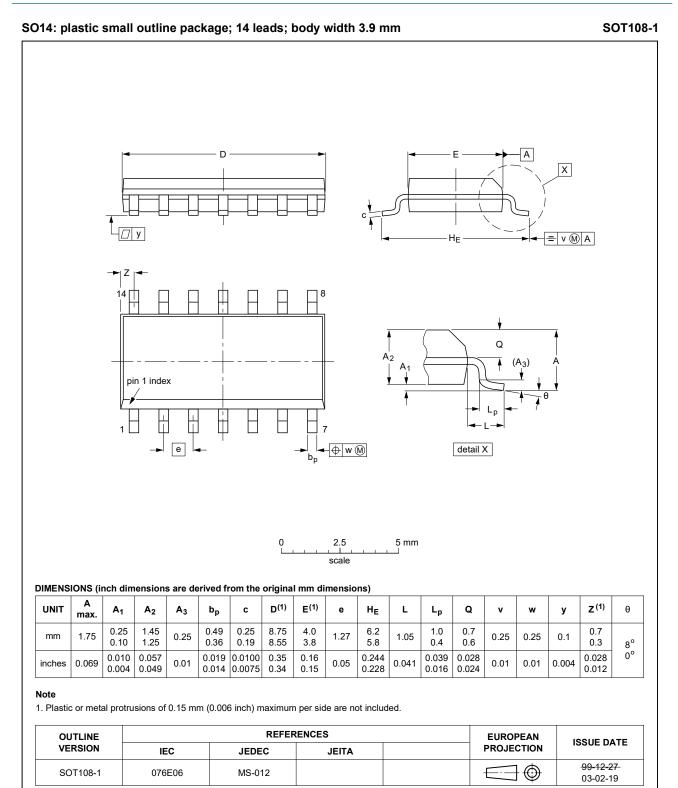
 $V_{EXT}$  = External voltage for measuring switching times.

### Fig. 8. Test circuit for measuring switching times

### Table 9. Test data

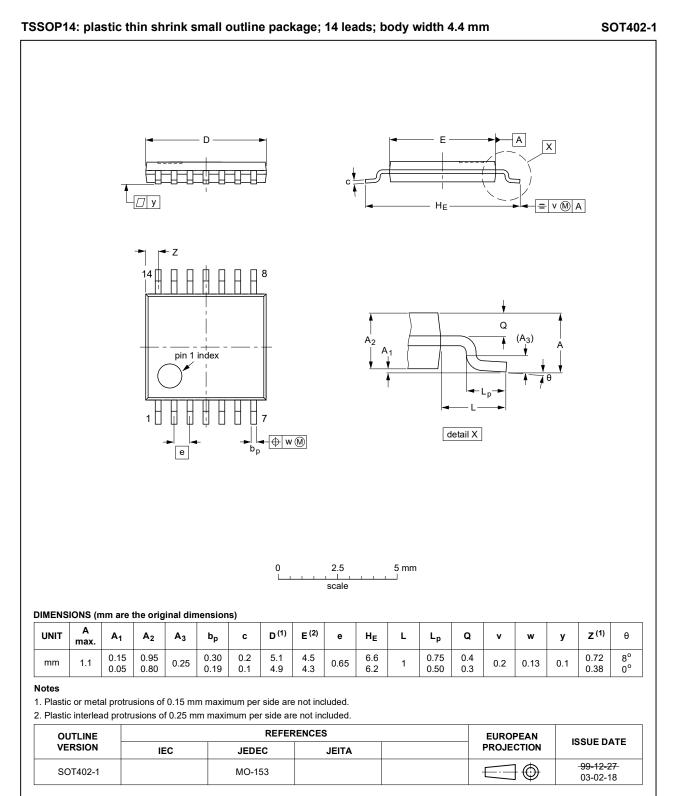
Supply voltage	Input		Load	Load		V <sub>EXT</sub>		
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PLZ</sub> , t <sub>PZL</sub>	t <sub>PHZ</sub> , t <sub>PZH</sub>	
1.2 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	2 × V <sub>CC</sub>	GND	
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	2 × V <sub>CC</sub>	GND	
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2 ns	30 pF	500 Ω	open	$2 \times V_{CC}$	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V <sub>CC</sub>	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	$2 \times V_{CC}$	GND	

# **11. Package outline**



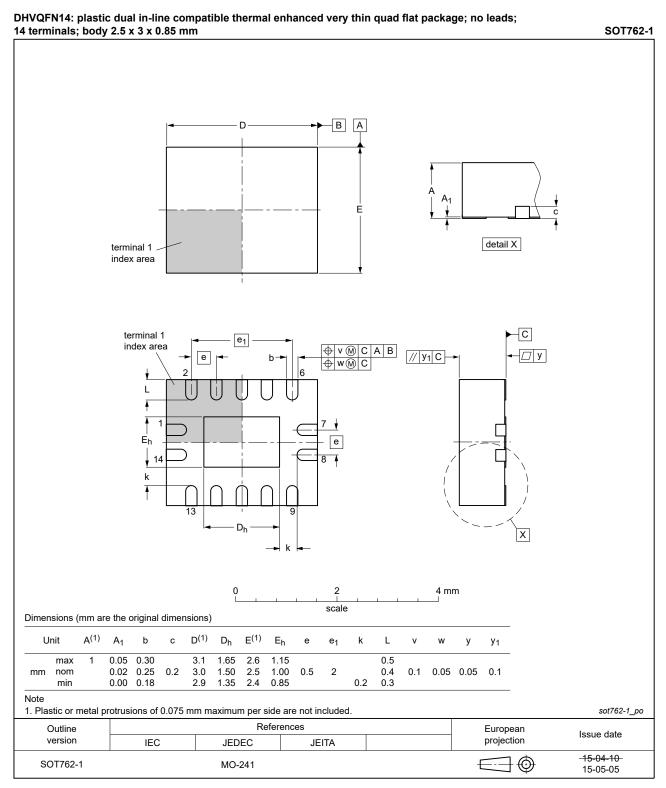
### Fig. 9. Package outline SOT108-1 (SO14)

### Quad buffer/line driver with 5 V tolerant input/outputs; 3-state





### Quad buffer/line driver with 5 V tolerant input/outputs; 3-state





## 12. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

# 13. Revision history

#### Table 11. Revision history **Document ID** Release date Data sheet status Change notice Supersedes 74LVC126A v.11 20210920 Product data sheet 74LVC126A v.10 Modifications: • Type number 74LVC126ADB (SOT337-1/SSOP14) removed. 74LVC126A v.10 Product data sheet 74LVC126A v.9 20200828 Modifications: • Section 1 updated. • Table 4: Derating values for Ptot total power dissipation updated. 74LVC126A v.9 20180821 Product data sheet 74LVC126A v.8 Modifications: The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. • 74LVC126A v.8 20140408 Product data sheet 74LVC126A v.7 Modifications: Legal pages updated. • 74LVC126A v.7 Product data sheet 74LVC126A v.6 20111209 Modifications: Legal pages updated. • 74LVC126A v.6 20110926 Product data sheet 74LVC126A v.5 74LVC126A v.5 20030228 74LVC126A v.4 Product specification \_ 74LVC126A v.4 20020308 Product specification 74LVC126A v.3 \_ 74LVC126A v.3 19980428 Product specification 74LVC126A v.2 \_ 74LVC126A v.2 19970801 Product specification \_ 74LVC126A v.1 74LVC126A v.1 19961226 Product specification \_

# 14. Legal information

#### **Data sheet status**

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

 Please consult the most recently issued document before initiating or completing a design.

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