74LVC126A

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

Rev. 9 — 21 August 2018 Product data sheet

1. General description

The 74LVC126A consists of four non-inverting buffers/line drivers with 3-state outputs, which are controlled by the output enable input (nOE). A LOW at nOE causes the outputs to assume a high-impedance OFF-state.

Inputs can be driven from either 3.3~V~or~5~V~devices. When disabled, up to 5.5~V~can be applied to the outputs.

2. Features and benefits

- 5 V tolerant inputs/outputs for interfacing with 5 V logic
- 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

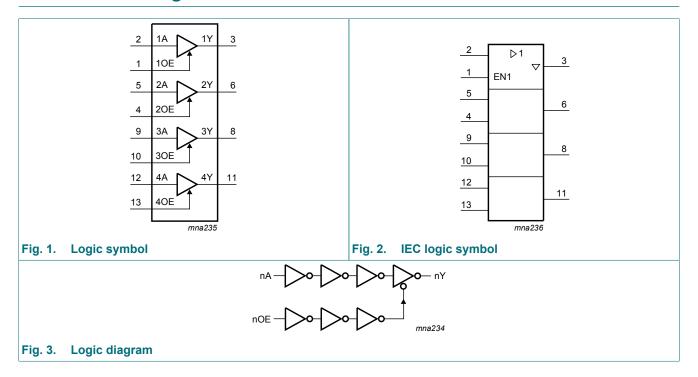
Table 1. Ordering information

74LVC126ADB	Package	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								
74LVC126ADB	-40 °C to +125 °C	SSOP14	plastic shrink small outline package; 14 leads; body width 5.3 mm									
74LVC126APW	-40 °C to +125 °C	TSSOP14	plastic thin 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								



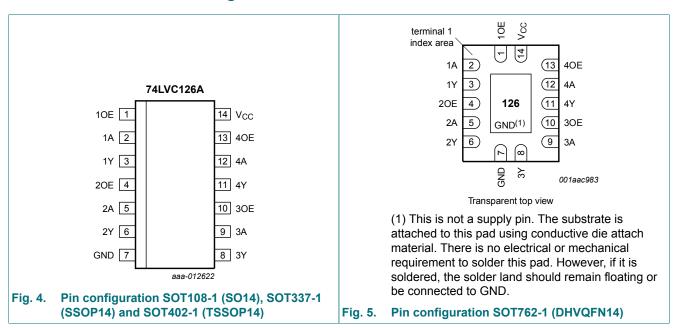
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

4. Functional diagram



5. Pinning information

5.1. Pinning



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

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 _{CC}	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		Output			
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	Max	Unit
V_{CC}	supply voltage		-0.5	+6.5	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA
V _O	output voltage	output HIGH or LOW-state [2]	-0.5	V _{CC} + 0.5	V
		output 3-state [2]	-0.5	+6.5	V
I _O	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
I _{CC}	supply current		-	100	mA
I_{GND}	ground current		-100	-	mA
T _{stg}	storage temperature	[3]	-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	-	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 SO14 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K.
For (T)SSOP14 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K.
For DHVQFN14 packages: above 60 °C the value of P_{tot} derates linearly with 4.5 mW/K.

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	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 _{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		V _{CC} = 2.7 V to 3.6 V	0	-	10	ns/V

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	Unit	
			Min	Typ [1]	Max	Min	Max]
V _{IH}	HIGH-level input	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	voltage	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	0.65V _{CC}	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V_{IL}	LOW-level input	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	-	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V _{OH}	HIGH-level output	$V_I = V_{IH}$ or V_{IL}						
	voltage	I _O = -100 μA; V _{CC} = 1.65 V to 3.6 V	V _{CC} - 0.2	-	-	V _{CC} - 0.3	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	1.05	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	1.8	-	-	1.65	-	V
		I_{O} = -12 mA; V_{CC} = 2.7 V	2.2	-	-	2.05	-	V
		I_{O} = -18 mA; V_{CC} = 3.0 V	2.4	-	-	2.25	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.2	-	-	2.0	-	V
V _{OL}	LOW-level output	$V_I = V_{IH}$ or V_{IL}						
	voltage	I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.65	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.6	-	0.8	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	-	0.6	V
		I _O = 24 mA; V _{CC} = 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	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
l _l	input leakage current	$V_{CC} = 3.6 \text{ V}; V_I = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μΑ
l _{OZ}	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	μΑ
I _{OFF}	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	±0.1	±10	-	±20	μΑ
I _{CC}	supply current	$V_{CC} = 3.6 \text{ V}; V_I = V_{CC} \text{ or GND}; I_O = 0 \text{ A}$	-	0.1	10	-	40	μΑ
Δl _{CC}	additional supply current	per input pin; V _{CC} = 1.65 V to 3.6 V; V _I = V _{CC} - 0.6 V; I _O = 0 A	-	5	500	-	5000	μA
C _I	input capacitance	V_{CC} = 0 V to 3.6 V; V_{I} = GND to V_{CC}	-	4.0	-	-	-	pF

^[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 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	-40	°C to +85	°C	-40 °C to	Unit	
			Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation delay	nA to nY; see Fig. 6 [2]						
		V _{CC} = 1.2 V	-	11.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	1.5	5.2	10.8	1.5	12.6	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.8	5.6	1.0	6.6	ns
		V _{CC} = 2.7 V	1.5	2.7	5.2	1.5	6.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.4	4.7	1.0	6.0	ns
t _{en} enable time		nOE to nY; see Fig. 7 [2]						
		V _{CC} = 1.2 V	-	15.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	2.4	6.7	12.9	2.4	15.0	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	3.8	7.1	2.0	8.3	ns
		V _{CC} = 2.7 V	1.5	3.1	6.3	1.5	8.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.1	5.7	1.0	7.5	ns
t _{dis}	disable time	nOE to nY; see Fig. 7 [2]						
		V _{CC} = 1.2 V	-	8.0	-	-	-	ns
		V _{CC} = 1.65 V to 1.95 V	1.0	3.3	10.0	1.0	11.5	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	1.8	5.6	0.5	6.5	ns
		V _{CC} = 2.7 V	1.5	3.4	6.7	1.5	8.5	ns
		V _{CC} = 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		-40	°C to +85	°C	-40 °C to	Unit	
				Min	Typ [1]	Max	Min	Max	
t _{sk(o)}	output skew time	V _{CC} = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C _{PD}			[4]						
capacitance		V _{CC} = 1.65 V to 1.95 V		-	6.0	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V		-	9.3	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V		-	12.2	-	-	-	pF

- 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_{pd} is the same as t_{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.
- C_{PD} is used to determine the dynamic power dissipation (P_D in μ 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:

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

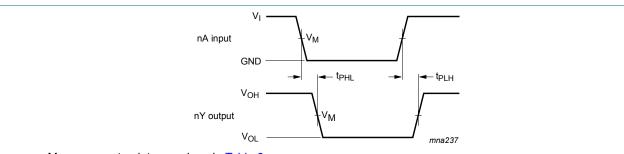
C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

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

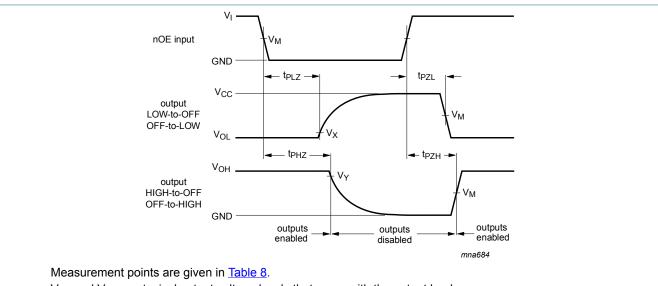
10.1. Waveforms and test circuit



Measurement points are given in <u>Table 8</u>.

V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

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



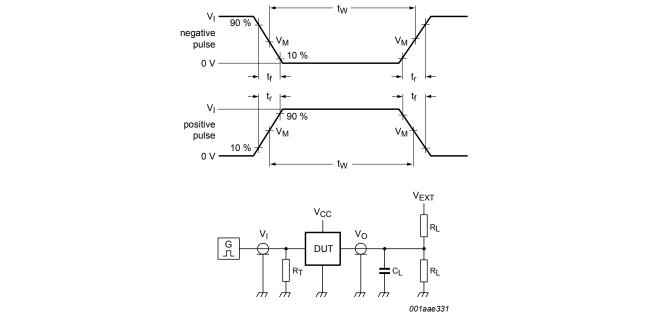
V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

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 _{CC}	V _M	V _M	V _X	V _Y						
V _{CC} < 2.7 V	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V						
V _{CC} ≥ 2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V						



Test data is given in Table 9.

Definitions for test circuit:

R_L = Load resistance.

 $\ensuremath{\text{C}_{\text{L}}}$ = Load capacitance including jig and probe capacitance.

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator.

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

Fig. 8. Test circuit for measuring switching times

Table 9. Test data

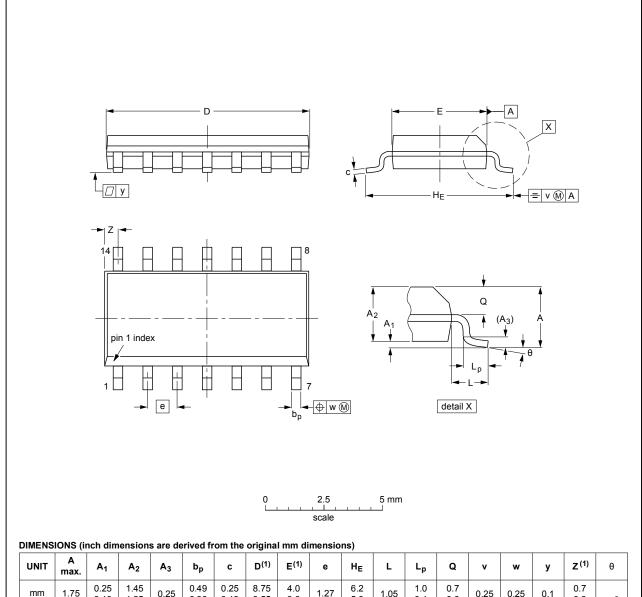
Supply voltage	Input		Load		V _{EXT}	V _{EXT}				
	VI	t _r , t _f	t _r , t _f C _L		t _{PLH} , t _{PHL}	t _{PLZ} , t _{PZL}	t _{PHZ} , t _{PZH}			
1.2 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND			
1.65 V to 1.95 V	V _{CC}	≤ 2 ns	30 pF	1 kΩ	open	2 × V _{CC}	GND			
2.3 V to 2.7 V	V _{CC}	≤ 2 ns	30 pF	500 Ω	open	2 × V _{CC}	GND			
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND			
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V _{CC}	GND			

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

11. Package outline

SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	1.75	0.25 0.10	1.45 1.25	0.25	0.49 0.36	0.25 0.19	8.75 8.55	4.0 3.8	1.27	6.2 5.8	1.05	1.0 0.4	0.7 0.6	0.25	0.25	0.1	0.7 0.3	8°
inches	0.069	0.010 0.004	0.057 0.049	0.01		0.0100 0.0075	0.35 0.34	0.16 0.15	0.05	0.244 0.228	0.041	0.039 0.016	0.028 0.024	0.01	0.01	0.004	0.028 0.012	0°

Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE VERSION	REFERENCES			EUROPEAN	ISSUE DATE	
	IEC	JEDEC	JEITA		PROJECTION	1330E DATE
SOT108-1	076E06	MS-012				99-12-27 03-02-19

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

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

SSOP14: plastic shrink small outline package; 14 leads; body width 5.3 mm

SOT337-1

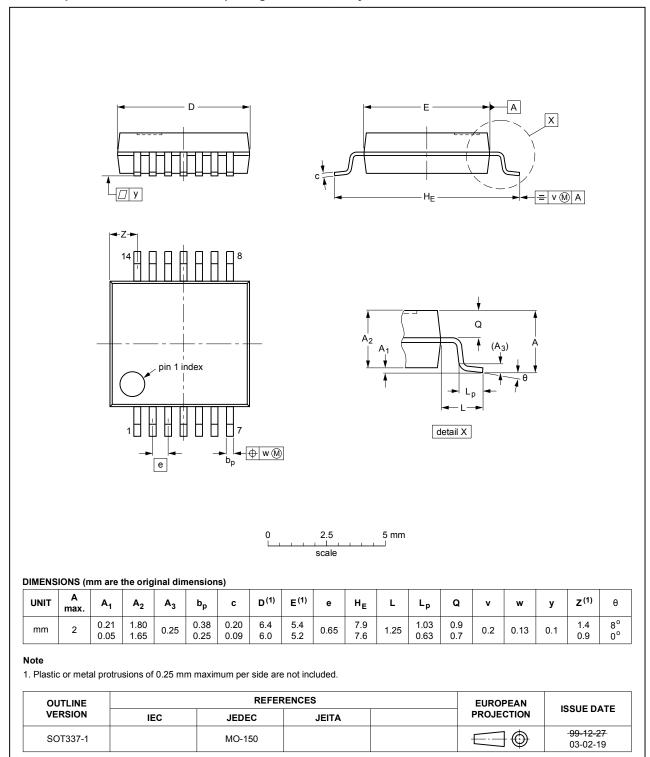
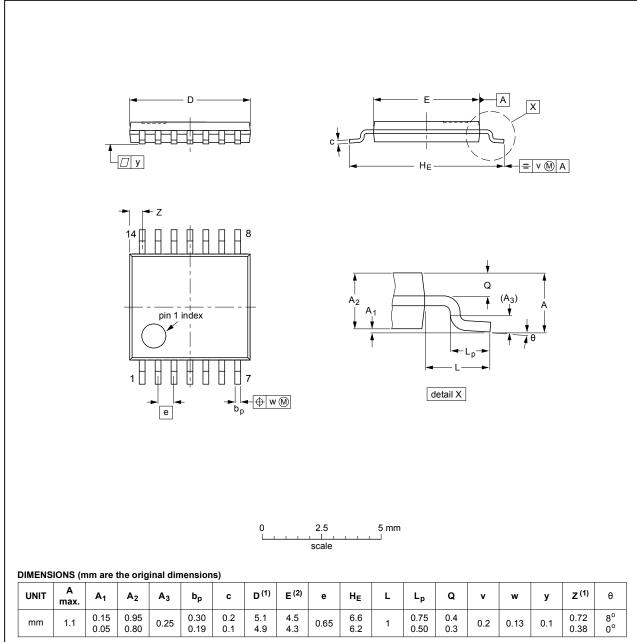


Fig. 10. Package outline SOT337-1 (SSOP14)

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

TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1



Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE	REFERENCES			EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT402-1		MO-153				99-12-27 03-02-18

Fig. 11. Package outline SOT402-1 (TSSOP14)

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

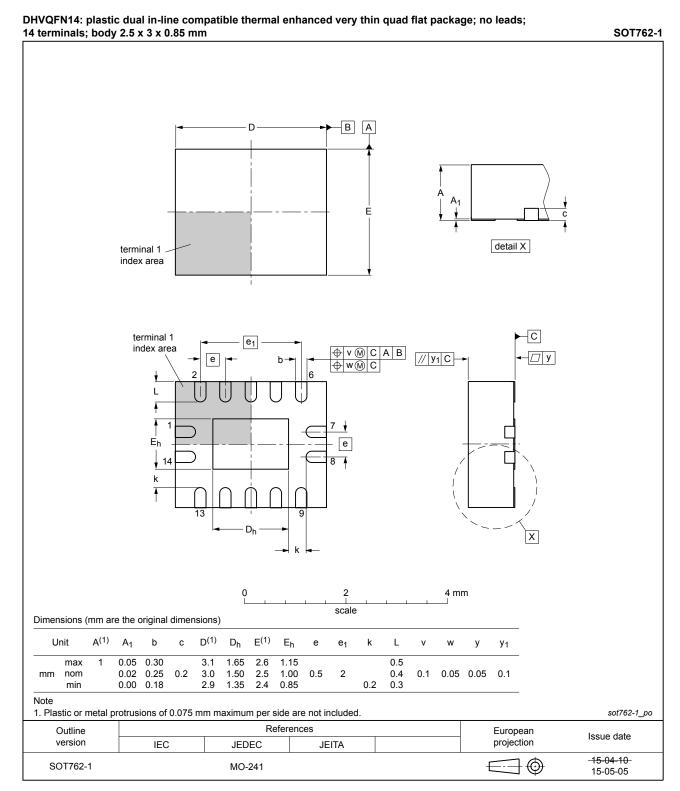


Fig. 12. Package outline SOT762-1 (DHVQFN14)

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

12. Abbreviations

Table 10. 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.9	20180821	Product data sheet	-	74LVC126A v.8		
Modifications:	of Nexperia	 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 page	Legal pages updated.				
74LVC126A v.7	20111209	Product data sheet	-	74LVC126A v.6		
Modifications:	Legal page	Legal pages updated.				
74LVC126A v.6	20110926	Product data sheet	-	74LVC126A v.5		
74LVC126A v.5	20030228	Product specification	-	74LVC126A v.4		
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	-	-		

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

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.
- [2] The term 'short data sheet' is explained in section "Definitions".
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Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

Contents

1. General description	1
2. Features and benefits	1
3. Ordering information	1
4. Functional diagram	2
5. Pinning information	2
5.1. Pinning	2
5.2. Pin description	3
6. Functional description	3
7. Limiting values	
8. Recommended operating conditions	4
9. Static characteristics	
10. Dynamic characteristics	5
10.1. Waveforms and test circuit	6
11. Package outline	8
12. Abbreviations	12
13. Revision history	
14. Legal information	
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