74LVC126AQuad buffer/line driver with 5 V tolerant input/outputs; 3-stateRev. 8 — 8 April 2014Product 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

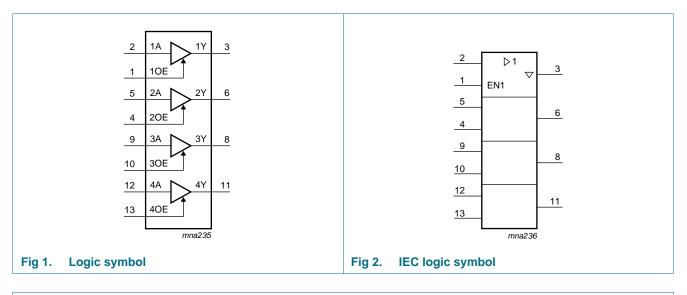
### Table 1.Ordering information

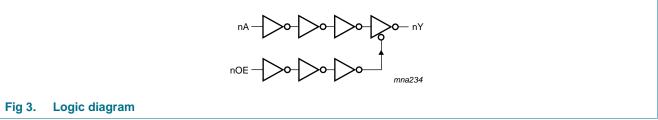
Type number	Package			
	Temperature range	Name	Description	Version
74LVC126AD	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74LVC126ADB	–40 °C to +125 °C	SSOP14	plastic shrink small outline package; 14 leads; body width 5.3 mm	SOT337-1
74LVC126APW	–40 °C to +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 $2.5 \times 3 \times 0.85$ mm	SOT762-1



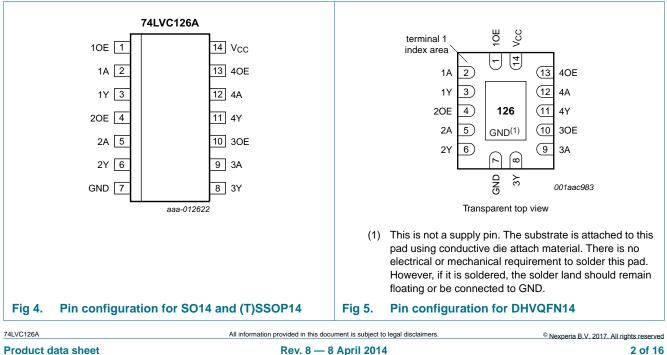
### Quad buffer/line driver with 5 V tolerant input/outputs; 3-state

#### **Functional diagram** 4.





#### 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	1	data enable input (active HIGH)			
1A	2	data input			
1Y	3	data output			
2OE	4	data enable input (active HIGH)			
2A	5	data input			
2Y	6	data output			
GND	7	ground (0 V)			
3Y	8	data output			
3A	9	data input			
3OE	10	data enable input (active HIGH)			
4Y	11	data output			
4A	12	data input			
40E	13	data enable input (active HIGH)			
V <sub>CC</sub>	14	supply voltage			

# 6. Functional description

### Table 3. Function selection<sup>[1]</sup>

Inputs nOE nA		Output
nOE	nA	nY
Н	L	L
Н	Н	Н
L	X	Z

[1] H = HIGH voltage level

L = LOW voltage level

X = don't care

Z = high-impedance OFF-state

# 7. Limiting values

#### Table 4.Limiting values

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

Symbol	Parameter	Conditions		Min	Max	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	$V_{O} = 0 V$ to $V_{CC}$		-	±50	mA

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

#### Table 4. Limiting values ...continued

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

Symbol	Parameter	Conditions	Min	Max	Unit
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature	[3]	-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \ ^{\circ}C \text{ to } +125 \ ^{\circ}C$	-	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<sub>tot</sub> derates linearly with 8 mW/K.
 For (T)SSOP14 packages: above 60 °C the value of P<sub>tot</sub> derates linearly with 5.5 mW/K.
 For DHVQFN14 packages: above 60 °C the value of P<sub>tot</sub> derates linearly with 4.5 mW/K.

# 8. Recommended operating conditions

#### Symbol Parameter Conditions Min Тур Max Unit $V_{CC}$ supply voltage 1.65 3.6 V \_ functional 1.2 V VI 0 \_ 5.5 V input voltage V ٧o output voltage output HIGH or LOW state 0 V<sub>CC</sub> \_ output 3-state 0 5.5 V Tamb ambient temperature in free air -40 \_ +125 °C $\Delta t / \Delta V$ input transition rise V<sub>CC</sub> = 1.65 V to 2.7 V 0 20 ns/V \_ and fall rate V<sub>CC</sub> = 2.7 V to 3.6 V 0 10 ns/V

### Table 5. Recommended operating conditions

### 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 +8	S ℃	–40 °C to	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	$V_{CC}$ = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		$V_{CC}$ = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2.0	-	-	2.0	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
		$V_{CC}$ = 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

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

Symbol	Parameter	Conditions	-40	°C to +8	85 °C	–40 °C t	–40 °C to +125 °C		
			Min	Typ <mark>[1]</mark>	Max	Min	Max		
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$							
	output voltage	$I_{O} = -100 \ \mu A;$ $V_{CC} = 1.65 \ V \ to \ 3.6 \ V$	$V_{CC}-0.2$	-	-	$V_{CC}-0.3$	-	V	
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	V	
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	V	
		$I_0 = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	V	
		$I_0 = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	2.25	-	V	
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	V	
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$							
	output voltage	$I_{O} = 100 \ \mu A;$ $V_{CC} = 1.65 \ V \text{ to } 3.6 \ V$	-	-	0.2	-	0.3	V	
	I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.65	V		
		$I_0 = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V	
		$I_0 = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V	
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	V	
lı	input leakage current	$V_{CC} = 3.6 \text{ V}; \text{ V}_{I} = 5.5 \text{ V} \text{ or GND}$	-	±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	$V_{CC} = 0$ V; $V_{I}$ or $V_{O} = 5.5$ 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	
Δl <sub>CC</sub>	additional supply current	per input pin; $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V};$ $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}$	-	5	500	-	5000	μA	
CI	input capacitance	$V_{CC} = 0 V \text{ to } 3.6 V;$ V <sub>I</sub> = GND to V <sub>CC</sub>	-	4.0	-	-	-	pF	

### Table 6. Static characteristics ...continued

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

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

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

# **10. Dynamic characteristics**

#### Table 7. Dynamic characteristics

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

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C te	o +125 °C	Unit
					Typ <mark>[1]</mark>	Max	Min	Max	
t <sub>pd</sub>	propagation delay	nA to nY; see Figure 6	[2]						
		V <sub>CC</sub> = 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
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	2.4	4.7	1.0	6.0	ns
t <sub>en</sub>	enable time	nOE to nY; see Figure 7	[2]						
		V <sub>CC</sub> = 1.2 V		-	15.0	-	-	-	ns
		$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$		2.4	6.7	12.9	2.4	15.0	ns
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$		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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.0	3.1	5.7	1.0	7.5	ns
t <sub>dis</sub>	disable time	nOE to nY; see Figure 7	[2]						
		V <sub>CC</sub> = 1.2 V		-	8.0	-	-	-	ns
		$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$		1.0	3.3	10.0	1.0	11.5	ns
		$V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$		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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.3	2.5	6.0	1.3	7.5	ns
t <sub>sk(o)</sub>	output skew time	$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	<u>[3]</u>	-	-	1.0	-	1.5	ns
C <sub>PD</sub>	power dissipation	per buffer; $V_I = GND$ to $V_{CC}$	<u>[4]</u>						
	capacitance	$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$		-	6.0	-	-	-	pF
		$V_{CC}$ = 2.3 V to 2.7 V		-	9.3	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	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]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

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

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

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

[4]  $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu$ W).

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$ 

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

 $C_L$  = output load capacitance in pF

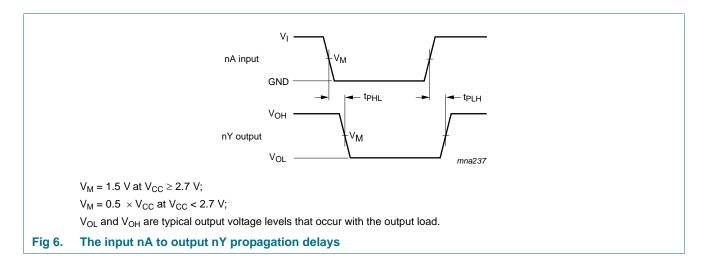
V<sub>CC</sub> = supply voltage in Volts

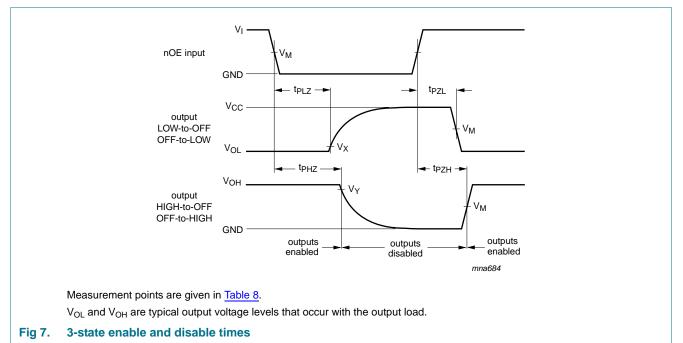
N = number of inputs switching

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

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

# **11. AC waveforms**





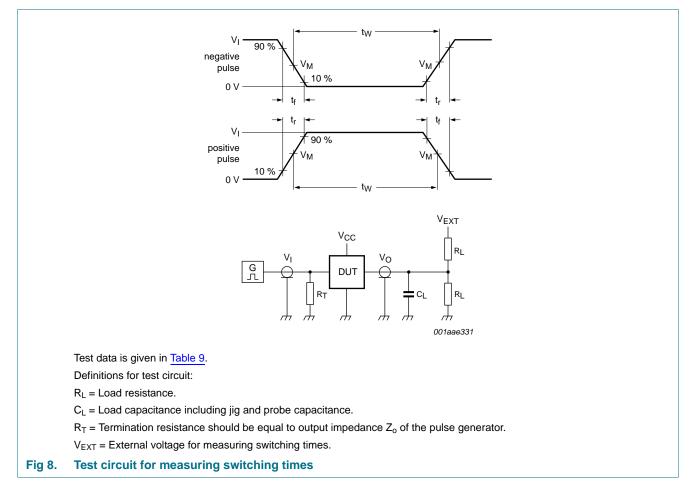
#### Table 8.Measurement points

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	$0.5  imes V_{CC}$	$0.5  imes V_{CC}$	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> – 0.15 V		
$V_{CC} \geq 2.7 \ V$	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> – 0.3 V		

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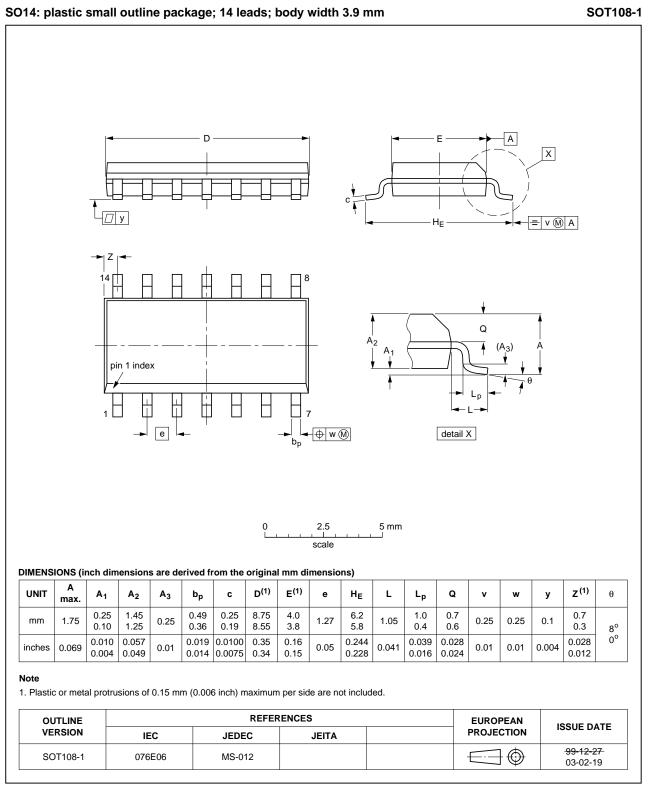
### Quad buffer/line driver with 5 V tolerant input/outputs; 3-state



Supply voltage	Input		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	$2 \times V_{CC}$	GND
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	$2 \times V_{CC}$	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	$2 \times V_{CC}$	GND
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	$2 \times V_{CC}$	GND

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

### 12. Package outline



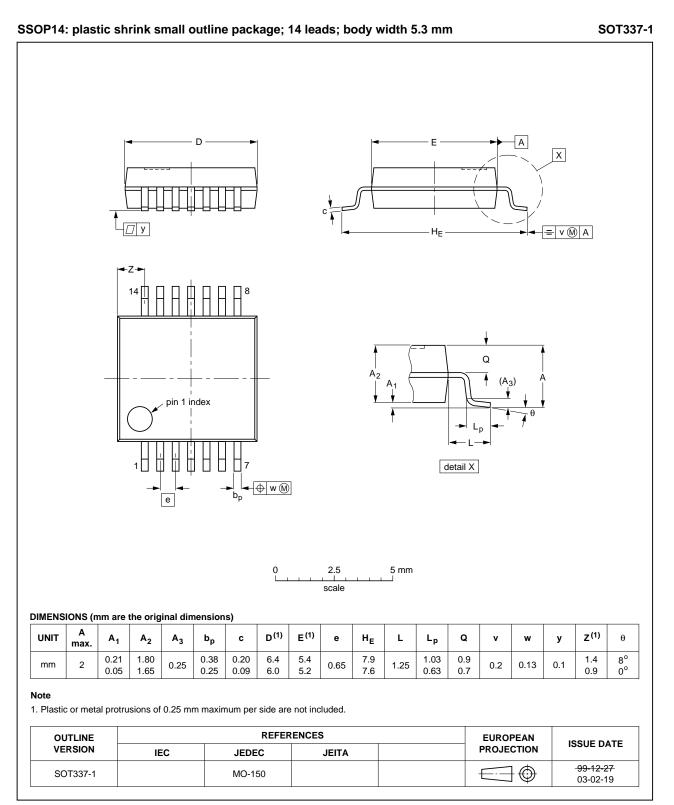
### Fig 9. Package outline SOT108-1 (SO14)

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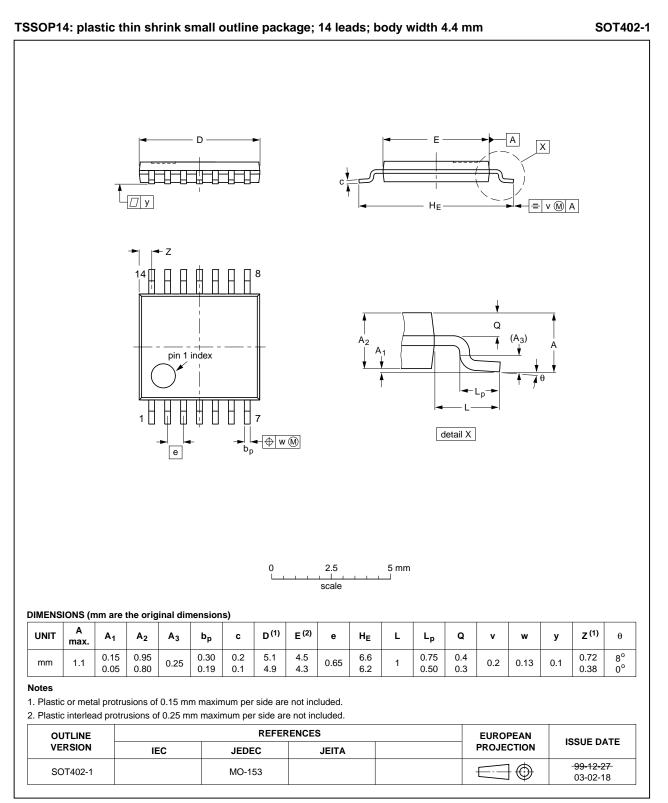
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state



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

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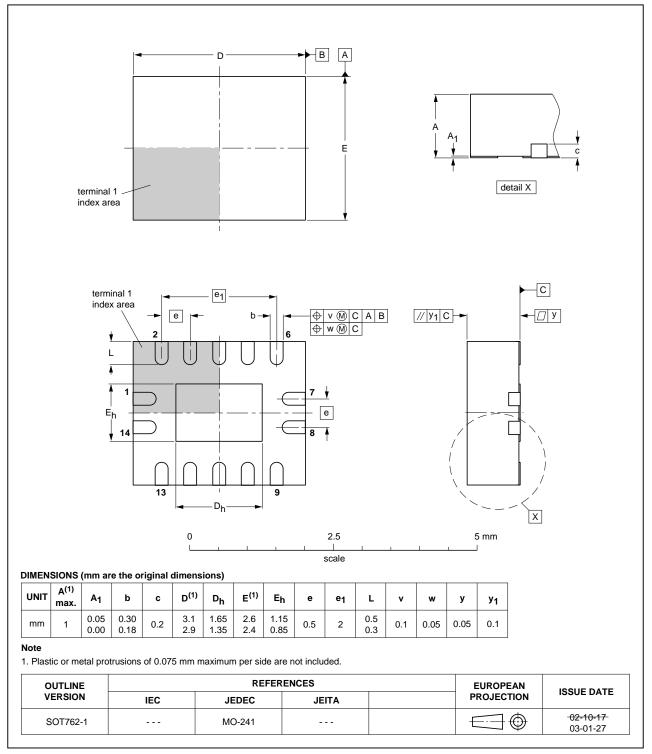
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state



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

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



DHVQFN14: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 x 3 x 0.85 mm SOT762-1

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

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

# **13. Abbreviations**

Table 10. Abbreviations					
Acronym	Description				
CDM	Charged Device Model				
DUT	Device Under Test				
ESD	ElectroStatic Discharge				
HBM	Human Body Model				
MM	Machine Model				
TTL	Transistor-Transistor Logic				

# 14. Revision history

Table 11. Revision history					
Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC126A v.8	20140408	Product data sheet	-	74LVC126A v.7	
Modifications:	<ul> <li>Legal pages updat</li> </ul>	ed.			
74LVC126A v.7	20111209	Product data sheet	-	74LVC126A v.6	
Modifications:	<ul> <li>Legal pages updat</li> </ul>	ed.			
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	-	-	-	-	

## **15. Legal information**

### 15.1 Data sheet status

Document status[1][2]	Product status <sup>[3]</sup>	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.

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

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

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Product data sheet

### Nexperia

# 74LVC126A

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

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

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