# Quad buffer/line driver; 3-state

Rev. 1 — 15 November 2013

**Product data sheet** 

### 1. General description

The 74VHC126-Q100; 74VHCT126-Q100 are high-speed Si-gate CMOS devices and are pin compatible with Low-power Schottky TTL (LSTTL). They are specified in compliance with JEDEC standard No. 7-A.

The 74VHC126-Q100; 74VHCT126-Q100 provide four non-inverting buffer/line drivers with 3-state outputs. The output enable input (nOE) controls the 3-state outputs (nY). A LOW-level at pin nOE causes the outputs to assume a high-impedance OFF-state.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

### 2. Features and benefits

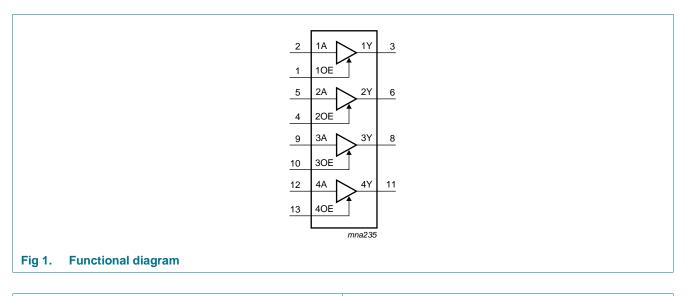
- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
   Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Balanced propagation delays
- All inputs have Schmitt-trigger action
- Inputs accept voltages higher than V<sub>CC</sub>
- Input levels:
  - The 74VHC126-Q100 operates with CMOS input level
  - The 74VHCT126-Q100 operates with TTL input level
- ESD protection:
  - MIL-STD-883, method 3015 exceeds 2000 V
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V (C = 200 pf, R = 0 Ω)
- Multiple package options

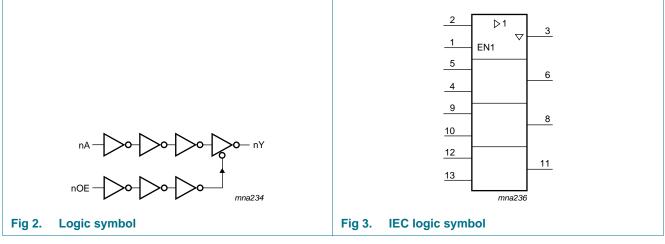
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### 3. Ordering information

Type number	Package										
	Temperature range	Name	Description	Version							
74VHC126D-Q100	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads;	SOT108-1							
74VHCT126D-Q100			body width 3.9 mm								
74VHC126PW-Q100	–40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package;	SOT402-1							
74VHCT126PW-Q100			14 leads; body width 4.4 mm								
74VHC126BQ-Q100	–40 °C to +125 °C	DHVQFN14	plastic dual in-line compatible thermal enhanced	SOT762-1							
74VHCT126BQ-Q100			very thin quad flat package; no leads; 14 terminals; body $2.5 \times 3 \times 0.85$ mm								

## 4. Functional diagram

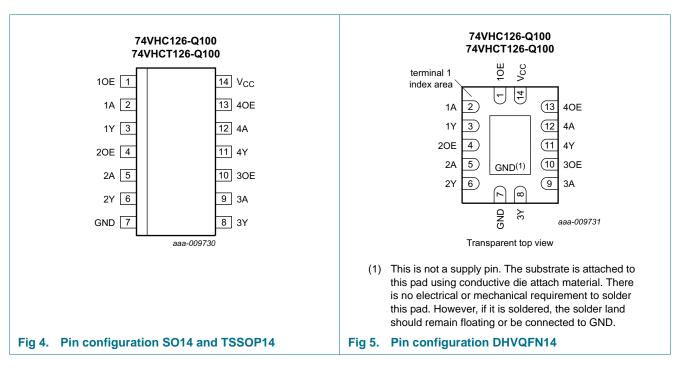




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### 5. Pinning information

5.1 Pinning



### 5.2 Pin description

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

### 6. Functional description

Table 3.	Function table <sup>[1]</sup>		
Control		Input	Output
nOE		nA	nY
Н		L	L
Н		Н	н
L		Х	Z

[1] H = HIGH voltage state;

L = LOW voltage state;

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). Voltages are referenced to GND (ground = 0 V).

Parameter	Conditions	Min	Max	Unit
supply voltage		-0.5	+7.0	V
input voltage		-0.5	+7.0	V
input clamping current	V <sub>I</sub> < -0.5 V	<u>[1]</u> –20	-	mA
output clamping current	$V_{\rm O}$ < –0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	<u>[1]</u> –20	+20	mA
output current	$V_{O} = -0.5 \text{ V}$ to ( $V_{CC} + 0.5 \text{ V}$ )	-25	+25	mA
supply current		-	+75	mA
ground current		-75	-	mA
storage temperature		-65	+150	°C
total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	[2] _	500	mW
	supply voltage input voltage input clamping current output clamping current output current supply current ground current storage temperature	supply voltageinput voltageinput clamping current $V_1 < -0.5 V$ output clamping current $V_0 < -0.5 V \text{ or } V_0 > V_{CC} + 0.5 V$ output current $V_0 = -0.5 V \text{ to } (V_{CC} + 0.5 V)$ supply currentground currentstorage temperature	supply voltage       -0.5         input voltage       -0.5         input voltage       -0.5         input clamping current $V_1 < -0.5 V$ 11 -20         output clamping current $V_0 < -0.5 V \text{ or } V_0 > V_{CC} + 0.5 V$ 11 -20         output current $V_0 = -0.5 V \text{ to } (V_{CC} + 0.5 V)$ -25         supply current       -       -         ground current       -75       -65	supply voltage       -0.5       +7.0         input voltage       -0.5       +7.0         input clamping current $V_1 < -0.5 V$ 11 -20       -         output clamping current $V_0 < -0.5 V$ or $V_0 > V_{CC} + 0.5 V$ 11 -20       +20         output current $V_0 = -0.5 V$ to $(V_{CC} + 0.5 V)$ -25       +25         supply current $V_0 = -0.5 V$ to $(V_{CC} + 0.5 V)$ -25       +75         ground current       -75       -       -         storage temperature       -65       +150       -

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

[2] For SO14 packages: above 70 °C the value of  $P_{tot}$  derates linearly at 8 mW/K.

For TSSOP14 packages: above 60 °C the value of P<sub>tot</sub> derates linearly at 5.5 mW/K. For DHVQFN14 packages: above 60 °C the value of P<sub>tot</sub> derates linearly at 4.5 mW/K.

# 8. Recommended operating conditions

	perating conditions					
Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
74VHC126-Q	100					
V <sub>CC</sub>	supply voltage		2.0	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC}$ = 3.0 V to 3.6 V	-	-	100	ns/V
		$V_{CC}$ = 4.5 V to 5.5 V	-	-	20	ns/V
74VHCT126-	Q100					
V <sub>CC</sub>	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	20	ns/V

### 9. Static characteristics

#### Table 6. Static characteristics

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

Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	–40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74VHC1	26-Q100	'								•
V <sub>IH</sub> HIGH-level input voltage		V <sub>CC</sub> = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	V <sub>CC</sub> = 3.0 V	2.1	-	-	2.1	-	2.1	-	V	
		V <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V <sub>IL</sub> LOW-level input voltage	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	V	
	V <sub>CC</sub> = 3.0 V	-	-	0.9	-	0.9	-	0.9	V	
		V <sub>CC</sub> = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
011	HIGH-level output voltage	$V_I = V_{IH} \text{ or } V_{IL}$								
		$I_{O}$ = -50 $\mu$ A; $V_{CC}$ = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		$I_{O}$ = –50 $\mu\text{A};V_{CC}$ = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		$I_{O}$ = -50 $\mu$ A; $V_{CC}$ = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_{O} = -8.0 \text{ mA}; \text{ V}_{CC} = 4.5 \text{ V}$	3.94	-	-	3.80	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_0 = 50 \ \mu A; \ V_{CC} = 2.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 50 \ \mu A; \ V_{CC} = 3.0 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 50 \ \mu A; \ V_{CC} = 4.5 \ V$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O}$ = 4.0 mA; $V_{CC}$ = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		$I_{O} = 8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V

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

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

Symbol	Parameter	Conditions		25 °C		–40 °C	to +85 °C	–40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
lı	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
oz	OFF-state output current		-	-	±0.25	-	±2.5	-	±10.0	μΑ
сс	supply current		-	-	2.0	-	20	-	40	μA
Cı	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF
74VHCT	126-Q100									
V <sub>IH</sub>	HIGH-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
0.11	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA	3.94	-	-	3.80	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_{I}$ = $V_{IH}$ or $V_{IL};V_{CC}$ = 4.5 V								
	output voltage	I <sub>O</sub> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I	input leakage current	$V_{I} = 5.5 V \text{ or GND};$ $V_{CC} = 0 V \text{ to } 5.5 V$	-	-	0.1	-	1.0	-	2.0	μA
l <sub>oz</sub>	OFF-state output current		-	-	±0.25	-	±2.5	-	±10.0	μΑ
I <sub>CC</sub>	supply current		-	-	2.0	-	20	-	40	μA
∆I <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$ ; other pins at $V_{CC}$ or GND; $I_0 = 0 \text{ A}$ ; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

# **10. Dynamic characteristics**

#### Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit, see <u>Figure 8</u>.

Symbol	Parameter	Conditions			25 °C		–40 °C	to +85 °C	<b>−40 °C</b>	to +125 °C	Uni
				Min	Typ <mark>[1]</mark>	Max	Min	Max	Min	Max	
74VHC1	26-Q100										
t <sub>pd</sub>	propagation	nA to nY; see Figure 6	[2]								
	delay	$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	4.7	8.0	1.0	9.5	1.0	10.0	ns
		C <sub>L</sub> = 50 pF		-	6.7	11.5	1.0	13.0	1.0	14.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V									
		C <sub>L</sub> = 15 pF		-	3.3	5.5	1.0	6.5	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	4.7	7.5	1.0	8.5	1.0	9.5	ns
t <sub>en</sub>	enable time	nOE to nY; see Figure 7	[3]								
		$V_{CC}$ = 3.0 V to 3.6 V									
		C <sub>L</sub> = 15 pF		-	5.3	8.0	1.0	9.5	1.0	10.0	ns
		C <sub>L</sub> = 50 pF		-	7.6	11.5	1.0	13.0	1.0	14.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V									
		C <sub>L</sub> = 15 pF		-	3.6	5.3	1.0	6.1	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	5.1	7.6	1.0	8.7	1.0	9.5	ns
t <sub>dis</sub> disable time	disable time	nOE to nY; see Figure 7	[4]								
		$V_{CC}$ = 3.0 V to 3.6 V									
		C <sub>L</sub> = 15 pF		-	6.6	9.7	1.0	11.5	1.0	12.5	ns
		C <sub>L</sub> = 50 pF		-	9.4	13.2	1.0	15.0	1.0	16.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V									
		C <sub>L</sub> = 15 pF		-	4.7	6.8	1.0	8.0	1.0	8.5	ns
		C <sub>L</sub> = 50 pF		-	6.7	8.8	1.0	10.0	1.0	11.0	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz};$ V <sub>I</sub> = GND to V <sub>CC</sub>	<u>[5]</u>	-	10	-	-	-	-	-	pF
74VHCT	126-Q100; V <sub>C</sub>	<sub>C</sub> = 4.5 V to 5.5 V									
t <sub>pd</sub>		nA to nY; see Figure 6	[2]								
	delay	C <sub>L</sub> = 15 pF		-	3.0	5.5	1.0	6.5	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	4.3	7.5	1.0	8.5	1.0	9.5	ns
t <sub>en</sub>	enable time	nOE to nY; see Figure 7	[3]								
		C <sub>L</sub> = 15 pF		-	3.3	5.1	1.0	6.0	1.0	6.5	ns
		C <sub>L</sub> = 50 pF		-	4.7	7.1	1.0	8.0	1.0	9.0	ns
t <sub>dis</sub>	disable time	nOE to nY; see Figure 7	[4]								
		C <sub>L</sub> = 15 pF		-	4.8	6.8	1.0	8.0	1.0	8.5	ns
		C <sub>L</sub> = 50 pF		-	6.9	8.9	1.0	10.0	1.0	11.5	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz};$ V <sub>I</sub> = GND to V <sub>CC</sub>	[5]	-	12	-	-	-	-	-	pF

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# 74VHC126-Q100; 74VHCT126-Q100

Quad buffer/line driver; 3-state

- [1] Typical values are measured at nominal supply voltage (V<sub>CC</sub> = 3.3 V and V<sub>CC</sub> = 5.0 V).
- [2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .
- [3]  $t_{en}$  is the same as  $t_{PZL}$  and  $t_{PZH}$ .
- [4]  $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .

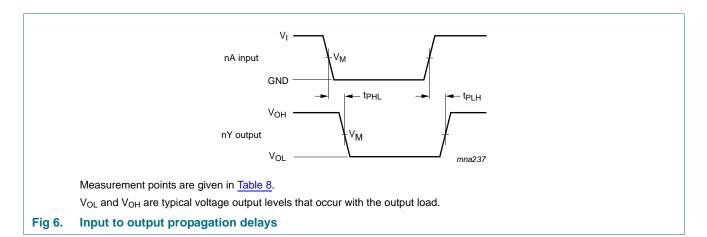
 $C_L$  = output load capacitance in pF;

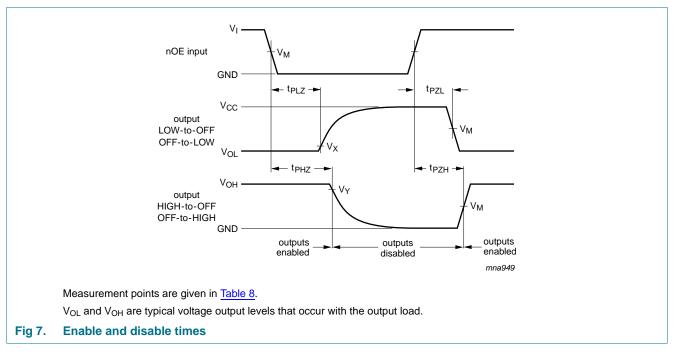
 $V_{CC}$  = supply voltage in V;

N = number of inputs switching;

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

### 11. Waveforms







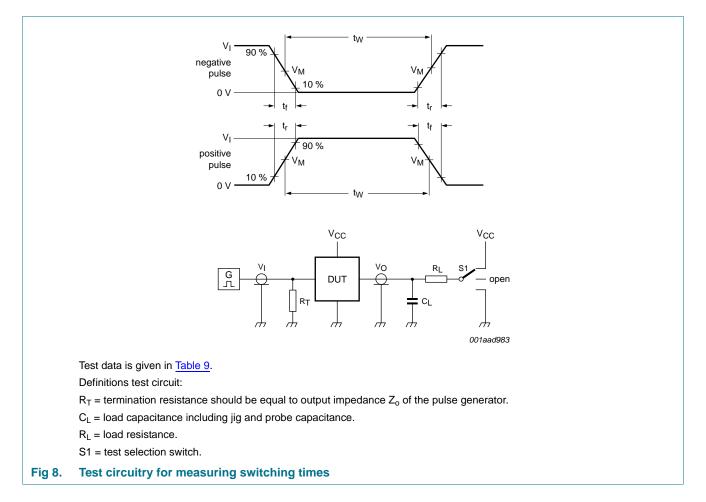
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# 74VHC126-Q100; 74VHCT126-Q100

#### Quad buffer/line driver; 3-state

Table 8.     Measurement points							
Туре	Input	Output					
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
74VHC126-Q100	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> – 0.3 V			
74VHCT126-Q100	1.5 V	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> – 0.3 V			

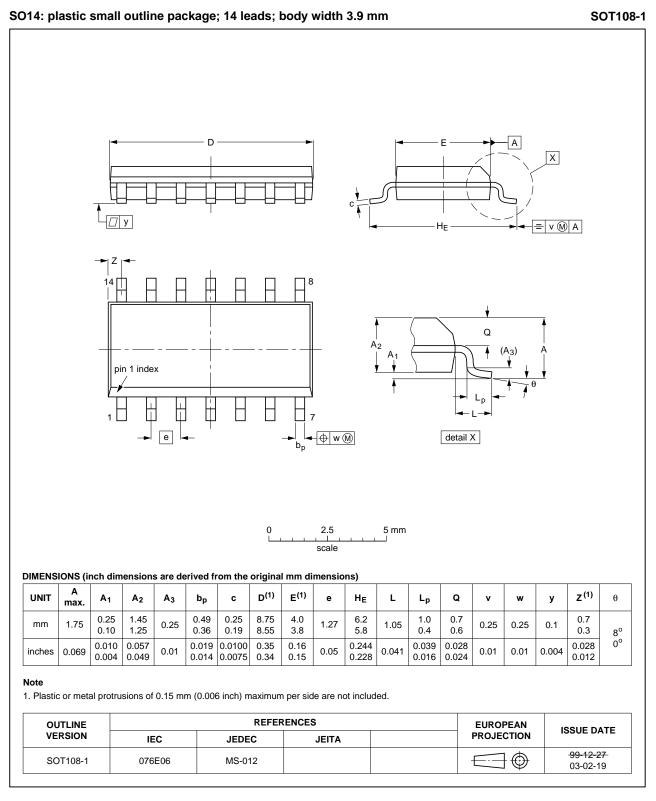


#### Table 9. Test data

Туре	Input		Load		S1 position		
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
74VHC126-Q100	V <sub>CC</sub>	$\leq$ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74VHCT126-Q100	3.0 V	$\leq$ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>

Quad buffer/line driver; 3-state

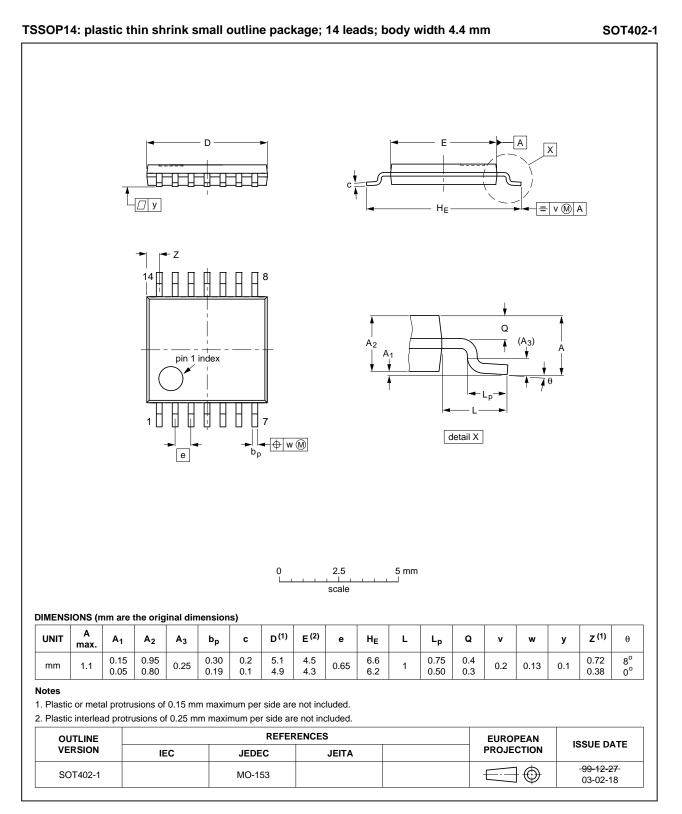
### 12. Package outline



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

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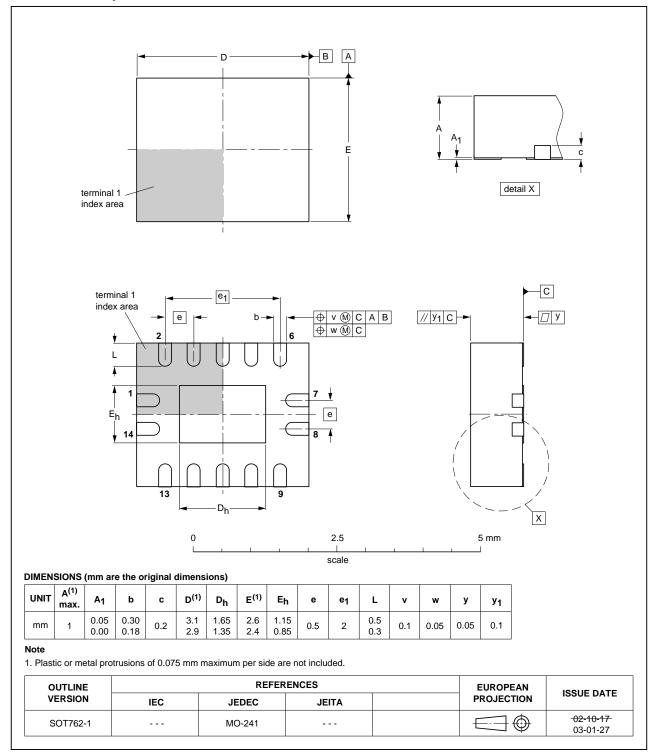
Quad buffer/line driver; 3-state



#### Fig 10. Package outline SOT402-1 (TSSOP14)

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Quad buffer/line driver; 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 11. Package outline SOT762-1 (DHVQFN14)

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Quad buffer/line driver; 3-state

# **13. Abbreviations**

Table 10.	Abbreviations
Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
LSTTL	Low-power Schottky Transistor-Transistor Logic
MIL	Military
MM	Machine Model

# 14. Revision history

Table 11.Revision history				
Document ID	Release date	Data sheet status	Change notice	Supersedes
74VHC_VHCT126_Q100 v.1	20131115	Product data sheet	-	-

### 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.

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

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74VHC_VHCT126_Q100
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**Product data sheet** 

#### Quad buffer/line driver; 3-state

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For sales office addresses, please send an email to: salesaddresses@nexperia.com

Quad buffer/line driver; 3-state

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Authorized Distributor

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 74VHCT126D-Q100J
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