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

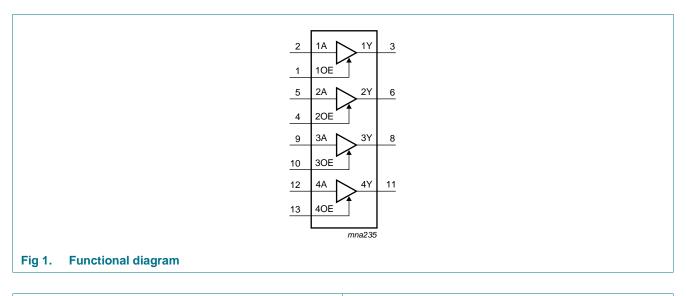
- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Balanced propagation delays
- All inputs have Schmitt-trigger action
- Inputs accept voltages higher than V_{CC}
- Input levels:
 - The 74VHC126-Q100 operates with CMOS 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

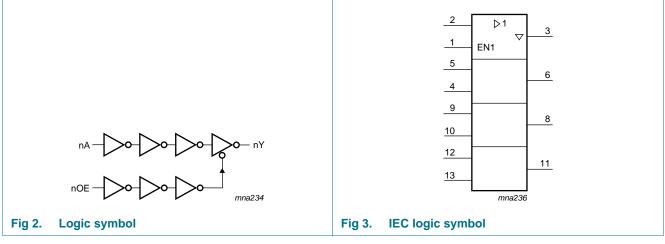
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3. Ordering information

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

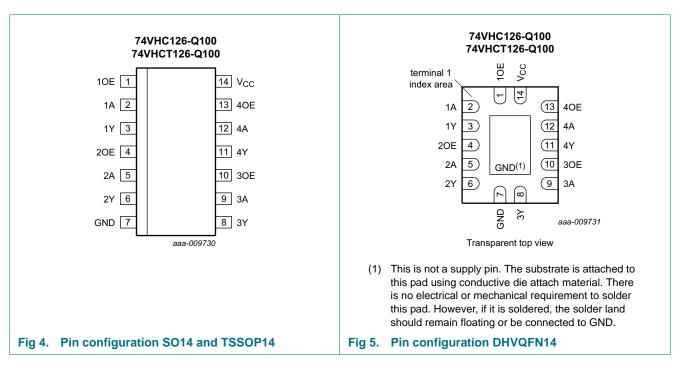




Quad buffer/line driver; 3-state

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 _{CC}	14	supply voltage

6. Functional description

Table 3.	Function table ^[1]		
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 _I < -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_{tot} derates linearly at 5.5 mW/K. For DHVQFN14 packages: above 60 °C the value of P_{tot} derates linearly at 4.5 mW/K.

8. Recommended operating conditions

	perating conditions					
Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
74VHC126-Q	100					
V _{CC}	supply voltage		2.0	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	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 _{CC}	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	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 _{IH} HIGH-level input voltage		V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	V _{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	V	
		V _{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V _{IL} LOW-level input voltage	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V	
	V _{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	V	
		V _{CC} = 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 μ 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 μ 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 _{OL}	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

Quad buffer/line driver; 3-state

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 _I = 5.5 V or GND; V _{CC} = 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 _{IH}	HIGH-level input voltage	V_{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V _{IL}	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 _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	-	-	3.80	-	3.70	-	V
V _{OL}	LOW-level	V_{I} = V_{IH} or $V_{IL};V_{CC}$ = 4.5 V								
	output voltage	I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 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 _{oz}	OFF-state output current		-	-	±0.25	-	±2.5	-	±10.0	μΑ
I _{CC}	supply current		-	-	2.0	-	20	-	40	μA
∆I _{CC}	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	−40 °C	to +125 °C	Uni
				Min	Typ <mark>[1]</mark>	Max	Min	Max	Min	Max	
74VHC1	26-Q100										
t _{pd}	propagation	nA to nY; see Figure 6	[2]								
	delay	$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$									
		C _L = 15 pF		-	4.7	8.0	1.0	9.5	1.0	10.0	ns
		C _L = 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 _L = 15 pF		-	3.3	5.5	1.0	6.5	1.0	7.0	ns
		C _L = 50 pF		-	4.7	7.5	1.0	8.5	1.0	9.5	ns
t _{en}	enable time	nOE to nY; see Figure 7	[3]								
		V_{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	5.3	8.0	1.0	9.5	1.0	10.0	ns
		C _L = 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 _L = 15 pF		-	3.6	5.3	1.0	6.1	1.0	7.0	ns
		C _L = 50 pF		-	5.1	7.6	1.0	8.7	1.0	9.5	ns
t _{dis} disable time	disable time	nOE to nY; see Figure 7	[4]								
		V_{CC} = 3.0 V to 3.6 V									
		C _L = 15 pF		-	6.6	9.7	1.0	11.5	1.0	12.5	ns
		C _L = 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 _L = 15 pF		-	4.7	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF		-	6.7	8.8	1.0	10.0	1.0	11.0	ns
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz};$ V _I = GND to V _{CC}	<u>[5]</u>	-	10	-	-	-	-	-	pF
74VHCT	126-Q100; V _C	_C = 4.5 V to 5.5 V									
t _{pd}		nA to nY; see Figure 6	[2]								
	delay	C _L = 15 pF		-	3.0	5.5	1.0	6.5	1.0	7.0	ns
		C _L = 50 pF		-	4.3	7.5	1.0	8.5	1.0	9.5	ns
t _{en}	enable time	nOE to nY; see Figure 7	[3]								
		C _L = 15 pF		-	3.3	5.1	1.0	6.0	1.0	6.5	ns
		C _L = 50 pF		-	4.7	7.1	1.0	8.0	1.0	9.0	ns
t _{dis}	disable time	nOE to nY; see Figure 7	[4]								
		C _L = 15 pF		-	4.8	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF		-	6.9	8.9	1.0	10.0	1.0	11.5	ns
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz};$ V _I = GND to V _{CC}	[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_{CC} = 3.3 V and V_{CC} = 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} .

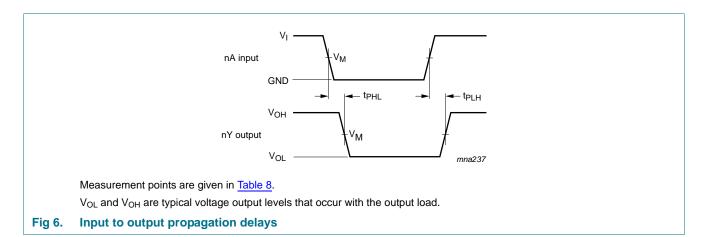
 C_L = output load capacitance in pF;

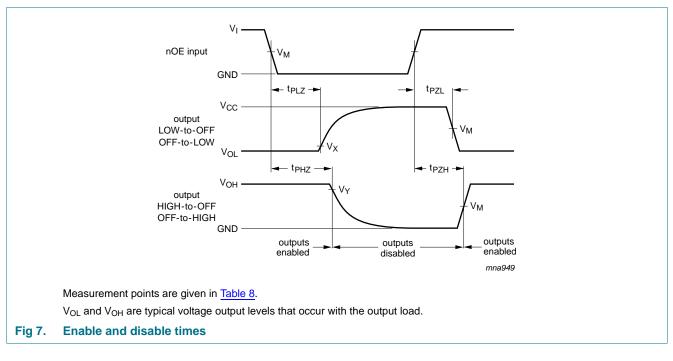
 V_{CC} = supply voltage in V;

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 _M	V _M	V _X	V _Y			
74VHC126-Q100	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V			
74VHCT126-Q100	1.5 V	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V			

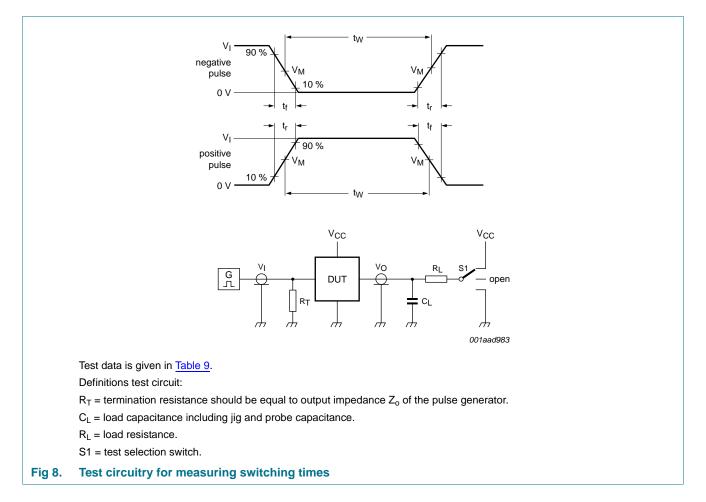


Table 9. Test data

Туре	Input		Load		S1 position		
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
74VHC126-Q100	V _{CC}	\leq 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}
74VHCT126-Q100	3.0 V	\leq 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}

Quad buffer/line driver; 3-state

12. Package outline

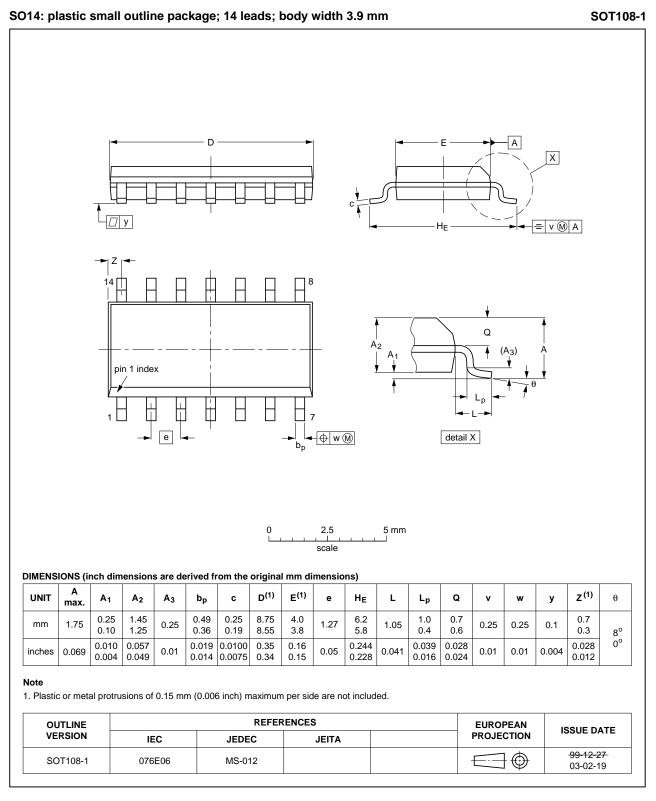


Fig 9. Package outline SOT108-1 (SO14)

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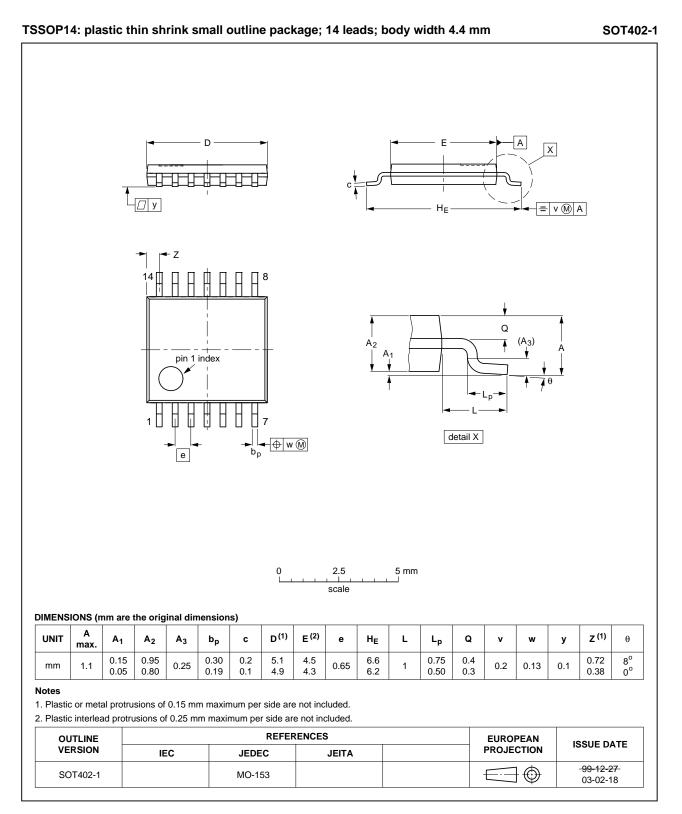
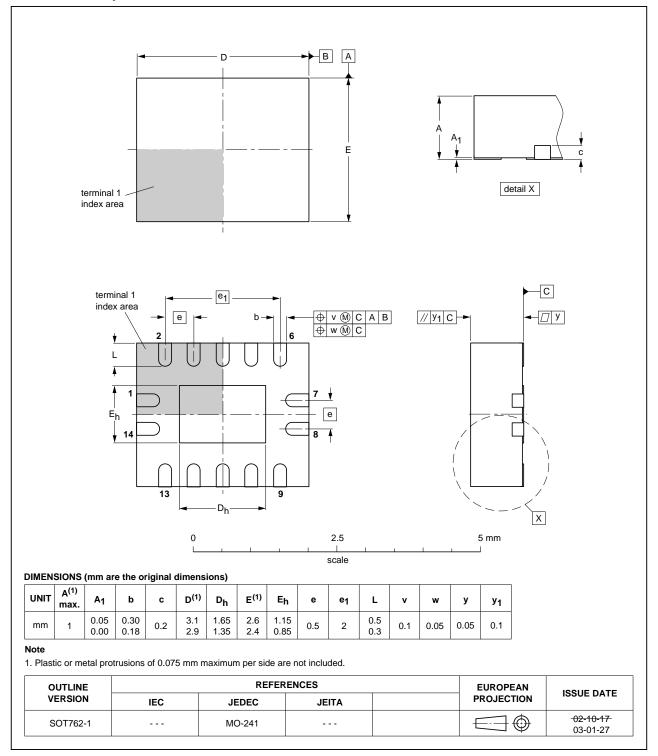


Fig 10. Package outline SOT402-1 (TSSOP14)

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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 ^[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.

[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".

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74VHC_VHCT126_Q100
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Product data sheet

Quad buffer/line driver; 3-state

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Quad buffer/line driver; 3-state

17. Contents

1	General description 1
2	Features and benefits 1
3	Ordering information 2
4	Functional diagram 2
5	Pinning information
5.1	Pinning 3
5.2	Pin description 3
6	Functional description 4
7	Limiting values 4
8	Recommended operating conditions 5
9	Static characteristics 5
10	Dynamic characteristics 7
11	Waveforms 8
12	Package outline 10
13	Abbreviations 13
14	Revision history 13
15	Legal information 14
15.1	Data sheet status 14
15.2	Definitions 14
15.3	Disclaimers 14
15.4	Trademarks 15
16	Contact information 15
17	Contents 16

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