Quad buffer/line driver; 3-state

Rev. 1 — 10 July 2012

**Product data sheet** 

### 1. General description

The 74AHC126-Q100; 74AHCT126-Q100 is a high-speed Si-gate CMOS device and is pin compatible with Low-power Schottky TTL (LSTTL). It is specified in compliance with JEDEC standard No. 7A.

The 74AHC126-Q100; 74AHCT126-Q100 provides four non-inverting buffer/line drivers with 3-state outputs. The 3-state outputs (nY) are controlled by the output enable input (nOE). A LOW-level at pin nOE causes the outputs to assume a high-impedance OFF-state.

The 74AHC126-Q100; 74AHCT126-Q100 is identical to the 74AHC125-Q100; 74AHCT125-Q100 but has active HIGH output enable inputs.

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:
  - For 74AHC126-Q100: CMOS level
  - For 74AHCT126-Q100: TTL 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

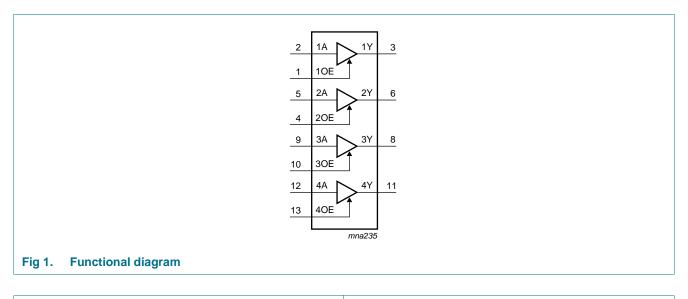


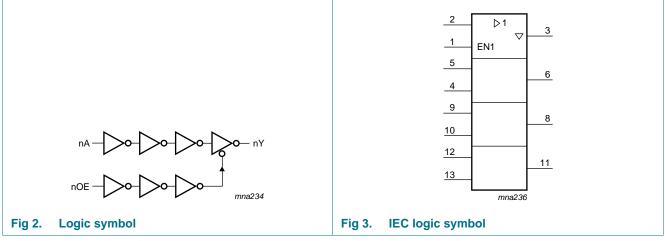
Quad buffer/line driver; 3-state

## 3. Ordering information

Table 1. Ordering in	nformation								
Type number	Package								
	Temperature range	Name	Description	Version					
74AHC126D-Q100	–40 °C to +125 °C	SO14	plastic small outline package; 14 leads;	SOT108-1					
74AHCT126D-Q100			body width 3.9 mm						
74AHC126PW-Q100	–40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads;	SOT402-1					
74AHCT126PW-Q100			body width 4.4 mm						
74AHC126BQ-Q100	–40 °C to +125 °C	DHVQFN14	F F	SOT762-1					
74AHCT126BQ-Q100			very thin quad flat package; no leads; 14 terminals; body 2.5 $\times$ 3 $\times$ 0.85 mm						

## 4. Functional diagram

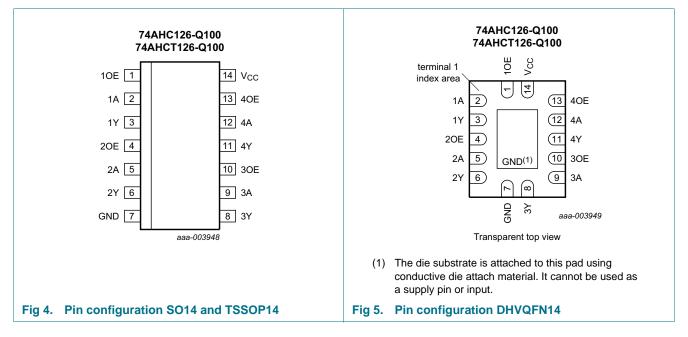




Quad buffer/line driver; 3-state

## 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
20E	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
3A	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

Quad buffer/line driver; 3-state

### 6. Functional description

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

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		-0.5	+7.0	V
VI	input voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < -0.5 V	<u>[1]</u> –20	-	mA
Ι <sub>ΟΚ</sub>	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
lo	output current	$V_{O} = -0.5 \text{ V}$ to ( $V_{CC} + 0.5 \text{ V}$ )	-25	+25	mA
I <sub>CC</sub>	supply current		-	+75	mA
I <sub>GND</sub>	ground current		-75	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \ ^{\circ}C \ to +125 \ ^{\circ}C$	[2] _	500	mW

[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.

Quad buffer/line driver; 3-state

## 8. Recommended operating conditions

Table 5.	Operating conditions					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
74AHC12	6-Q100					
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
Δt/ΔV	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
74AHCT1	26-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 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	
74AHC1	26-Q100					1			1	
	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	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	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	V	
	input voltage	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
V <sub>OH</sub>	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
		$I_{O} = -50 \ \mu\text{A}; \ V_{CC} = 3.0 \ \text{V}$	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
		$I_0 = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	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
		$I_{O} = 50 \ \mu A; V_{CC} = 4.5 \ V$	-	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 <sub>O</sub> = 8.0 mA; V <sub>CC</sub> = 4.5 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
I	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
l <sub>oz</sub>	OFF-state output current		-	-	±0.25	-	±2.5	-	±10.0	μA
l <sub>cc</sub>	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
74AHCT	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
V <sub>OH</sub> HIGH-level output voltage		$V_{I}$ = $V_{IH}$ or $V_{IL};V_{CC}$ = 4.5 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
lı	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	μA
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
Cı	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

Quad buffer/line driver; 3-state

## **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	Conditions				–40 °C to +85 °C		<b>-40 °C</b> 1	–40 °C to +125 °C	
				Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC1	26-Q100										
t <sub>pd</sub>	propagation	nA to nY; see Figure 6	[2]								
	delay	$V_{CC}$ = 3.0 V to 3.6 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	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>1</sub> = GND to V <sub>CC</sub>	<u>[5]</u>	-	10	-	-	-	-	-	pF
74AHCT	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

### **NXP Semiconductors**

# 74AHC126-Q100; 74AHCT126-Q100

Quad buffer/line driver; 3-state

- Typical values are measured at nominal supply voltage ( $V_{CC}$  = 3.3 V and  $V_{CC}$  = 5.0 V). [1]
- $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . [2]
- ten is the same as tPZL and tPZH. [3]
- [4]  $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .
- [5]  $C_{PD}$  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; fo = output frequency in MHz;

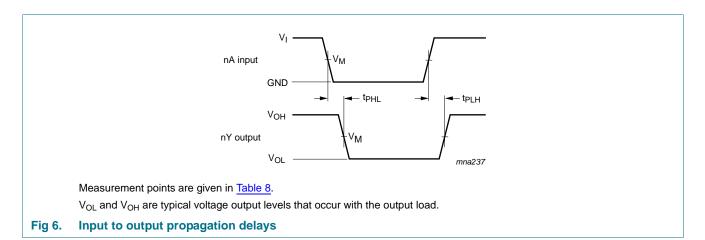
 $C_L$  = output load capacitance in pF;

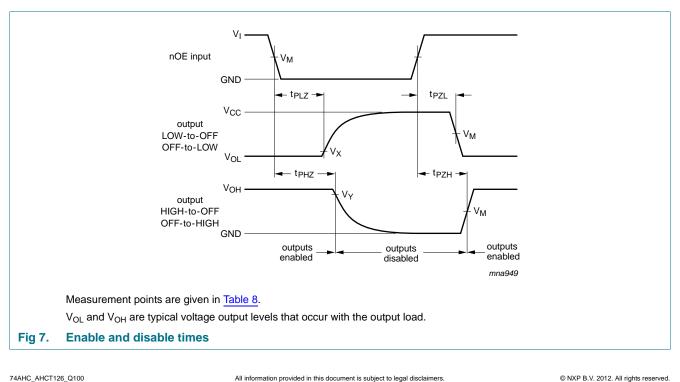
 $V_{CC}$  = supply voltage in V;

N = number of inputs switching;

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

### 11. Waveforms





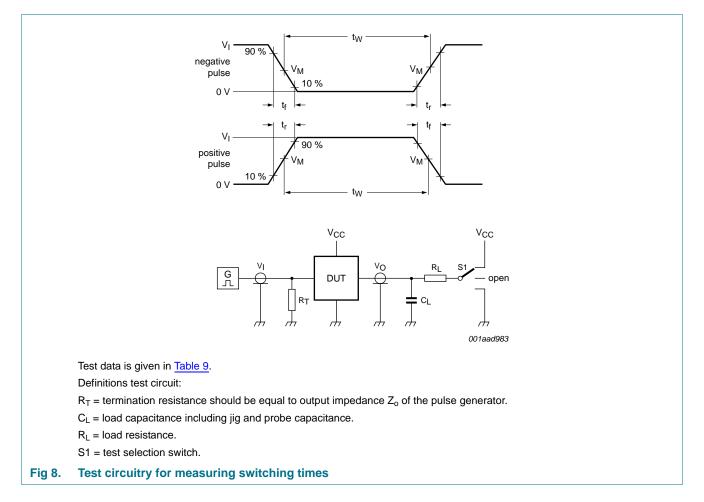
All information provided in this document is subject to legal disclaimers

### **NXP Semiconductors**

# 74AHC126-Q100; 74AHCT126-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>		
74AHC126-Q100	$0.5\times V_{CC}$	$0.5\times V_{CC}$	V <sub>OL</sub> + 0.3 V	$V_{OH} - 0.3 \ V$		
74AHCT126-Q100	1.5 V	$0.5\times V_{CC}$	V <sub>OL</sub> + 0.3 V	$V_{OH} - 0.3 V$		

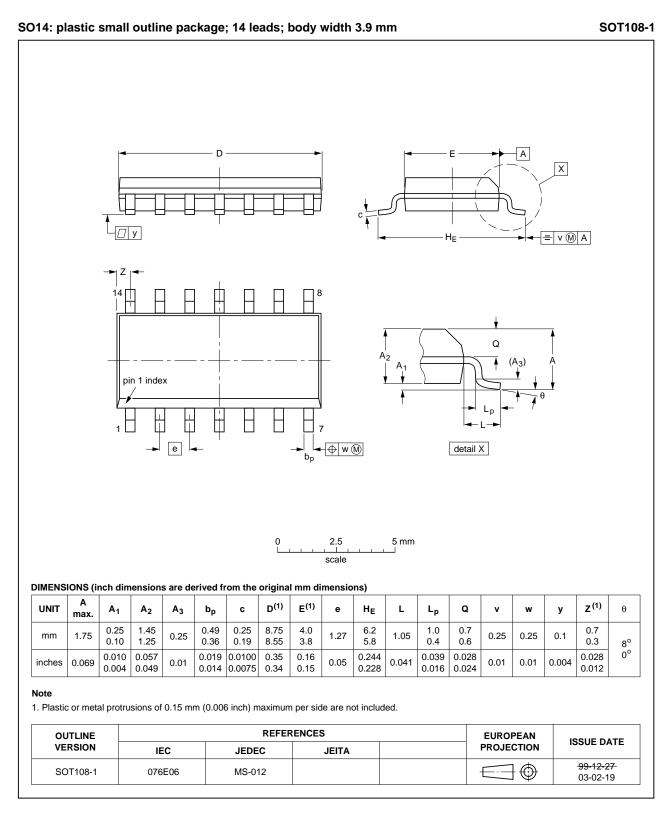


#### Table 9. Test data

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>
74AHC126-Q100	V <sub>CC</sub>	$\leq$ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74AHCT126-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

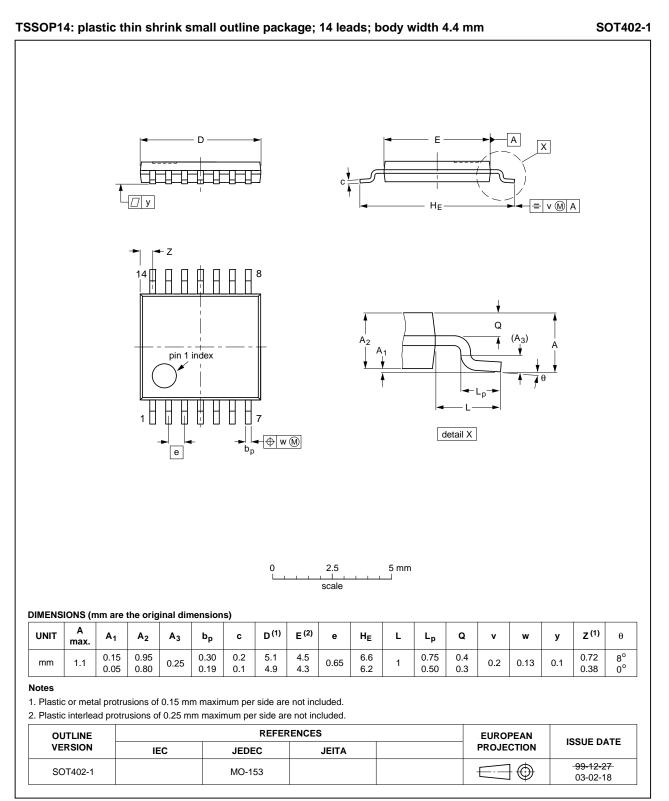
### 12. Package outline



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

All information provided in this document is subject to legal disclaimers.

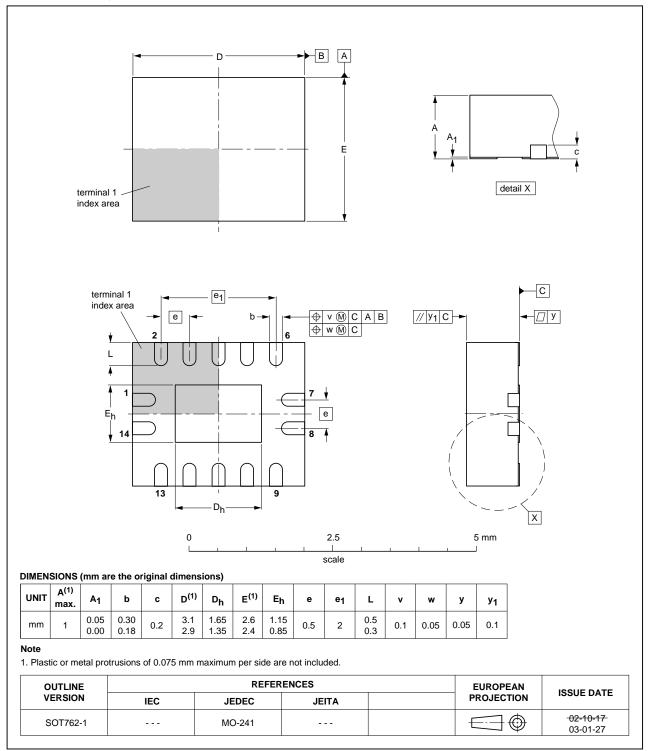
Quad buffer/line driver; 3-state



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

All information provided in this document is subject to legal disclaimers.

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)

All information provided in this document is subject to legal disclaimers.

Quad buffer/line driver; 3-state

## **13. Abbreviations**

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

## 14. Revision history

Table 11. Revision history				
Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT126_Q100 v.1	20120710	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.

[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"

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 [3] information is available on the Internet at URL http://www.nxp.com

### 15.2 Definitions

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Short data sheet — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local NXP Semiconductors sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

Product specification - The information and data provided in a Product data sheet shall define the specification of the product as agreed between NXP Semiconductors and its customer. unless NXP Semiconductors and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the NXP Semiconductors product is deemed to offer functions and qualities beyond those described in the Product data sheet.

#### 15.3 **Disclaimers**

Limited warranty and liability - Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. NXP Semiconductors takes no responsibility for the content in this document if provided by an information source outside of NXP Semiconductors.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of NXP Semiconductors

Right to make changes - NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

#### Suitability for use in automotive applications - This NXP

Semiconductors product has been qualified for use in automotive applications. Unless otherwise agreed in writing, the product is not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an NXP Semiconductors product can reasonably be expected to result in personal injury, death or severe property or environmental damage. NXP Semiconductors and its suppliers accept no liability for inclusion and/or use of NXP Semiconductors products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk

Applications — Applications that are described herein for any of these products are for illustrative purposes only. NXP Semiconductors makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using NXP Semiconductors products, and NXP Semiconductors accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the NXP Semiconductors product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

NXP Semiconductors does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using NXP Semiconductors products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). NXP does not accept any liability in this respect.

Limiting values - Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

Terms and conditions of commercial sale - NXP Semiconductors products are sold subject to the general terms and conditions of commercial sale, as published at http://www.nxp.com/profile/terms, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. NXP Semiconductors hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of NXP Semiconductors products by customer.

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

**No offer to sell or license** — Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

**Export control** — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

**Translations** — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

### 15.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

## **16. Contact information**

For more information, please visit: <u>http://www.nxp.com</u>

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

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 3
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
15.4	Trademarks 15
16	Contact information 15
17	Contents 16

Please be aware that important notices concerning this document and the product(s) described herein, have been included in section 'Legal information'.

© NXP B.V. 2012.

All rights reserved.

For more information, please visit: http://www.nxp.com For sales office addresses, please send an email to: salesaddresses@nxp.com

Date of release: 10 July 2012 Document identifier: 74AHC\_AHCT126\_Q100