

### 1. General description

The 74HC126-Q100; 74HCT126-Q100 is a quad buffer/line driver with 3-state outputs controlled by the output enable inputs (nOE). A LOW on nOE causes the outputs to assume a high impedance OFF-state. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of  $V_{CC}$ .

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

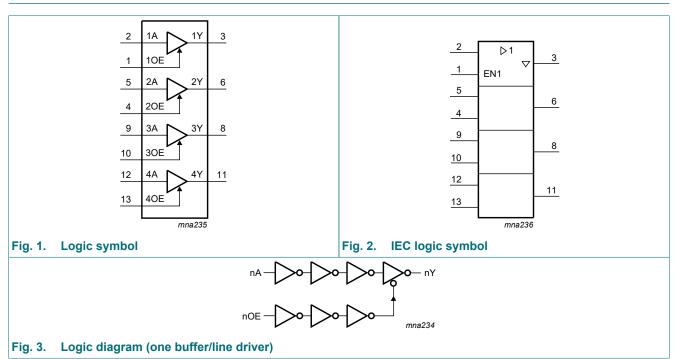
- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
   Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 2.0 V to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
  - JESD8C (2.7 V to 3.6 V)
  - JESD7A (2.0 V to 6.0 V)
- Input levels:
  - For 74HC126-Q100: CMOS levels
  - For 74HCT126-Q100: TTL levels
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V

# 3. Ordering information

Table 1. Ordering information									
Type number	Package								
	Temperature range	Name	Description	Version					
74HC126D-Q100 74HCT126D-Q100	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	<u>SOT108-1</u>					
74HC126PW-Q100 74HCT126PW-Q100	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	<u>SOT402-1</u>					

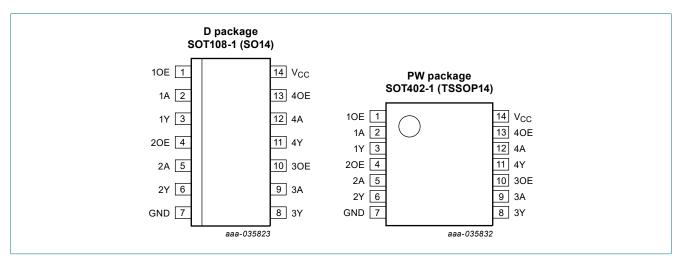
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# 4. Functional diagram



# 5. Pinning information

### 5.1. Pinning



### 5.2. 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 <sub>CC</sub>	14	supply voltage

### 6. Functional description

### Table 3. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

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

Symbol	Parameter	Conditions		Min	Max	Unit
V <sub>CC</sub>	supply voltage			-0.5	+7	V
I <sub>IK</sub>	input clamping current	$V_{I}$ < -0.5 V or $V_{I}$ > $V_{CC}$ + 0.5 V	[1]	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
lo	output current	$-0.5 V < V_O < V_{CC} + 0.5 V$		-	±35	mA
I <sub>CC</sub>	supply current			-	70	mA
I <sub>GND</sub>	ground current			-70	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °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 SOT108-1 (SO14) package:  $\mathsf{P}_{tot}$  derates linearly with 10.1 mW/K above 100 °C.

For SOT402-1 (TSSOP14) package: Ptot derates linearly with 7.3 mW/K above 81 °C.

# 8. Recommended operating conditions

### Table 5. Recommended operating conditions

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

Symbol	Parameter	Conditions 74HC126-Q100				74H	Unit		
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	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 t	o +85 °C	-40 °C to	o +125 °C	Unit
			Min	Тур	Max	Min	Мах	Min	Max	1
74HC12	6-Q100									
VIH	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
	V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V	
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I <sub>O</sub> = -6.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I <sub>O</sub> = -7.8 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 7.8 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0$ V	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 6.0 \text{ V};$ $V_{O} = V_{CC} \text{ or GND}$	-	±0.5	-	±5.0	-	±10	-	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	8.0	-	80	-	160	μA

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	1
CI	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT1	26-Q100	,								
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -6.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
V <sub>OL</sub> LOW-level		$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA	-	0.16	0.26	-	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 5.5 \text{ V};$ $V_{O} = V_{CC} \text{ or GND}$	-	-	±0.5	-	±5.0	-	±10	μA
I <sub>CC</sub>	supply current	$V_1 = V_{CC}$ or GND; $I_0 = 0$ A; $V_{CC} = 5.5$ V	-	-	8.0	-	80	-	160	μA
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_1 = V_{CC} - 2.1 \text{ V}; I_0 = 0 \text{ A};$ other inputs at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	100	360	-	450	-	490	μA
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

# **10.** Dynamic characteristics

### Table 7. Dynamic characteristics

 $GND = 0 V; C_L = 50 pF;$  for test circuit, see Fig. 6.

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74HC12	6-Q100						<u> </u>		-	
t <sub>pd</sub>	propagation	nA to nY; see Fig. 4 [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	30	100	-	125	-	150	ns
		V <sub>CC</sub> = 4.5 V	-	11	20	-	25	-	30	ns
	V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	9	-	-	-	-	-	ns	
	V <sub>CC</sub> = 6.0 V	-	9	17	-	21	-	26	ns	
t <sub>en</sub>	enable time	nOE to nY; see Fig. 5 [1]								
		V <sub>CC</sub> = 2.0 V	-	41	125	-	155	-	190	ns
		V <sub>CC</sub> = 4.5 V	-	15	25	-	31	-	38	ns
		V <sub>CC</sub> = 6.0 V	-	12	21	-	26	-	32	ns
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 5 [1]								
		V <sub>CC</sub> = 2.0 V	-	41	125	-	155	-	190	ns
		V <sub>CC</sub> = 4.5 V	-	15	25	-	31	-	38	ns
		V <sub>CC</sub> = 6.0 V	-	12	21	-	26	-	32	ns

Symbol	Parameter	Conditions			25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
				Min	Тур	Мах	Min	Max	Min	Max	-
t <sub>t</sub>	transition	see Fig. 4	1]								
	time	V <sub>CC</sub> = 2.0 V		-	14	60	-	75	-	90	ns
		V <sub>CC</sub> = 4.5 V		-	5	12	-	15	-	18	ns
		V <sub>CC</sub> = 6.0 V		-	4	10	-	13	-	15	ns
C <sub>PD</sub>	power dissipation capacitance	per package; V <sub>I</sub> = GND to V <sub>CC</sub>	2]	-	23	-	-	-	-	-	pF
74HCT1	26-Q100	1					1				
t <sub>pd</sub>	propagation	nA to nY; see Fig. 4	1]								
	delay	V <sub>CC</sub> = 4.5 V		-	14	24	-	30	-	36	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF		-	11	-	-	-	-	-	ns
t <sub>en</sub>	enable time	nOE to nY; see <u>Fig. 5;</u> V <sub>CC</sub> = 4.5 V	1]	-	13	25	-	31	-	38	ns
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 5; $V_{CC} = 4.5 V$	1]	-	18	28	-	35	-	42	ns
t <sub>t</sub>	transition time	$V_{CC} = 4.5 V; see Fig. 4$	1]	-	5	12	-	15	-	18	ns
C <sub>PD</sub>	power dissipation capacitance	per package; V <sub>I</sub> = GND to V <sub>CC</sub> - 1.5 V	[2]	-	24	-	-	-	-	-	pF

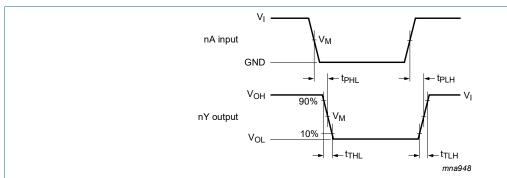
t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.
 t<sub>en</sub> is the same as t<sub>PZL</sub> and t<sub>PZH</sub>.
 t<sub>dis</sub> is the same as t<sub>PLZ</sub> and t<sub>PHZ</sub>.

 $\begin{array}{l} t_{t} \text{ is the same as } t_{THL} \text{ and } t_{TLH}. \\ \end{tabular} \\$ 

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

N = number of inputs switching;

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

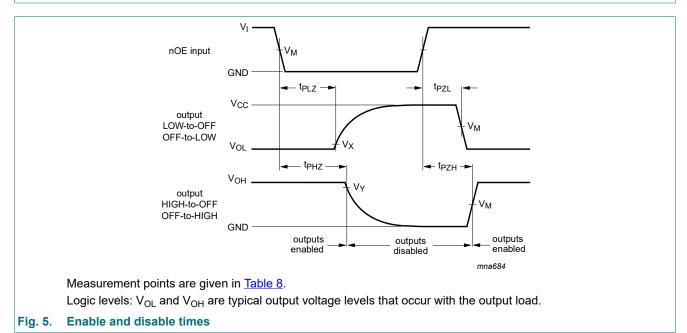


### 10.1. Waveforms and test circuit

Measurement points are given in Table 8.

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



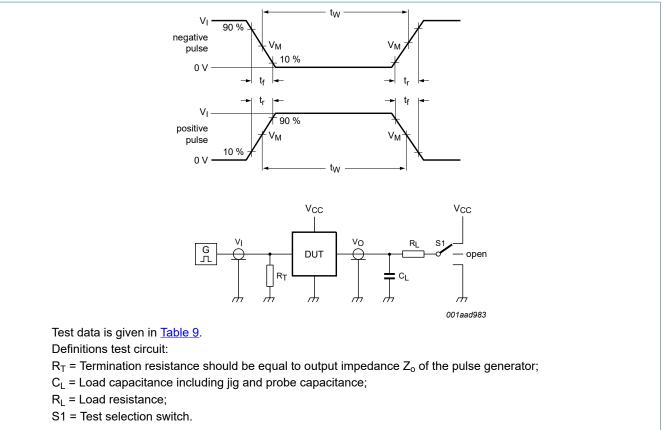


#### Table 8. Measurement points

Туре	Input	Output					
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
74HC126-Q100	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.1 × V <sub>CC</sub>	0.9 × V <sub>CC</sub>			
74HCT126-Q100	1.3 V	1.3 V	0.1 × V <sub>CC</sub>	$0.9 \times V_{CC}$			

# 74HC126-Q100; 74HCT126-Q100

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



#### Fig. 6. Test circuit for measuring switching times

#### Table 9. Test data

Туре	Input		Load		S1 position			
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>	
74HC126-Q100	V <sub>CC</sub>	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	
74HCT126-Q100	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	

# **11. Package outline**

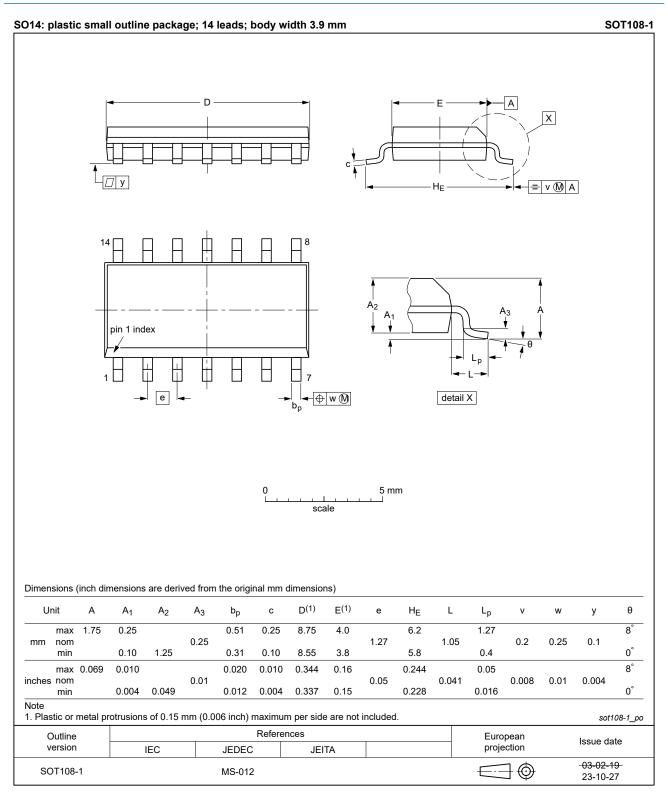


Fig. 7. Package outline SOT108-1 (SO14)

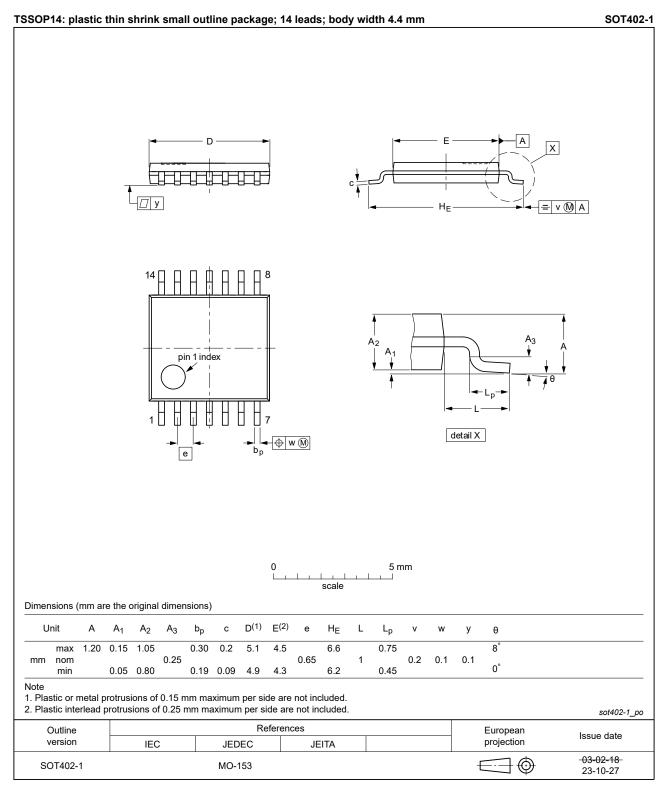


Fig. 8. Package outline SOT402-1 (TSSOP14)

# 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					
TTL	Transistor-Transistor Logic					

# 13. Revision history

Table 11. Revision history					
Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC_HCT126_Q100 v.4	20240229	Product data sheet	-	74HC_HCT126_Q100 v.3	
Modifications:	<ul> <li><u>Section 2</u>: ESD specification updated according to the latest JEDEC standard.</li> <li><u>Fig. 7</u>, <u>Fig. 8</u>: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153</li> </ul>				
74HC_HCT126_Q100 v.3	20221228	Product data sheet	-	74HC_HCT126_Q100 v.2	
Modifications:	<u>Section 2</u> updated (errata).				
74HC_HCT126_Q100 v.2	20210712	Product data sheet	-	74HC_HCT126_Q100 v.1	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li><u>Section 2</u> updated.</li> <li><u>Section 7</u>: Derating values for P<sub>tot</sub> total power dissipation have been updated.</li> </ul>				
74HC_HCT126_Q100 v.1	20130320	Product data sheet	-	-	

# 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.

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- [2] The term 'short data sheet' is explained in section "Definitions".
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#### Quad buffer/line driver; 3-state

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