# 74AHC2G125-Q100; 74AHCT2G125-Q100

Dual buffer/line driver; 3-state Rev. 2 — 2 January 2019

**Product data sheet** 

## 1. General description

The 74AHC2G125-Q100 and 74AHCT2G125-Q100 are high-speed Si-gate CMOS devices. They provide a dual non-inverting buffer/line driver with 3-state output. The output enable input ( $n\overline{OE}$ ) controls the 3-state output. A HIGH at  $n\overline{OE}$  causes the output to assume a high-impedance OFF-state.

The AHC device has CMOS input switching levels and supply voltage range 2 V to 5.5 V.

The AHCT device has TTL input switching levels and supply voltage range 4.5 V to 5.5 V.

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
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- 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

## 3. Ordering information

## Table 1. Ordering information

Type number	Package	ickage									
	Temperature range	Name	Description	Version							
74AHC2G125DP-Q100	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package;	SOT505-2							
74AHCT2G125DP-Q100			8 leads; body width 3 mm; lead length 0.5 mm								
74AHC2G125DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package;	SOT765-1							
74AHCT2G125DC-Q100	-		8 leads; body width 2.3 mm								

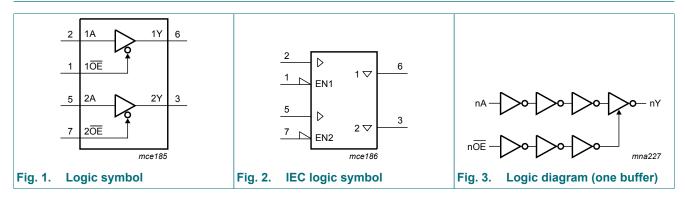
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# 4. Marking

Table 2. Marking codes Type number	Marking[1]
74AHC2G125DP-Q100	A25
74AHCT2G125DP-Q100	C25
74AHC2G125DC-Q100	A25
74AHCT2G125DC-Q100	C25

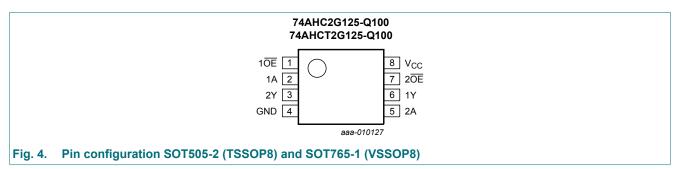
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 5. Functional diagram



# 6. Pinning information

## 6.1. Pinning



## 6.2. Pin description

Table 3. Pin descrip	Fable 3. Pin description								
Symbol	Pin	Description							
10E, 20E	1, 7	output enable input (active LOW)							
1A, 2A	2, 5	data input							
GND	4	ground (0 V)							
1Y, 2Y	6, 3	data output							
V <sub>CC</sub>	8	supply voltage							

# 7. Functional description

### Table 4. Function table

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

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

# 8. Limiting values

## Table 5. 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 [1]	-20	-	mA
Ι <sub>ΟΚ</sub>	output clamping current	$V_{\rm O} < -0.5 \text{ V or } V_{\rm O} > V_{\rm CC} + 0.5 \text{ V}$ [1]	-	±20	mA
lo	output current	$-0.5 V < V_O < V_{CC} + 0.5 V$	-	±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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [2]	-	250	mW

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

[2] For TSSOP8 package: above 55 °C the value of  $P_{tot}$  derates linearly with 2.5 mW/K.

For VSSOP8 package: above 110 °C the value of Ptot derates linearly with 8 mW/K.

# 9. Recommended operating conditions

## Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74AHC2G125-Q100			74AH0	CT2G125	5-Q100	Unit
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	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
$\Delta t/\Delta V$ input transition rise and		V <sub>CC</sub> = 3.3 V ± 0.3 V	-	-	100	-	-	-	ns/V
	fall rate	$V_{CC}$ = 5.0 V ± 0.5 V	-	-	20	-	-	20	ns/V

# **10. Static characteristics**

## Table 7. Static characteristics

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

Symbol	Parameter	Conditions		25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
			Min	Тур	Мах	Min	Max	Min	Max	-
74AHC2	G125-Q100									_
V <sub>IH</sub>	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	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O}$ = -4.0 mA; $V_{CC}$ = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I <sub>O</sub> = -8.0 mA; V <sub>CC</sub> = 4.5 V	3.94	-	-	3.8	-	3.70	-	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> = 50 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 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
I <sub>OZ</sub>	OFF-state output current	$V_1 = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	0.25	-	2.5	-	10	μA
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
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	40	μA
CI	input capacitance		-	1.5	10	-	10	-	10	pF
74АНСТ	2G125-Q100									
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	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	Ι <sub>Ο</sub> = -50 μΑ	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA	3.94	-	-	3.8	-	3.70	-	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> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Max	Min	Мах	
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	0.25	-	2.5	-	10	μA
l <sub>l</sub>	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
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	40	μA
ΔI <sub>CC</sub>	additional supply current	per input pin; V <sub>I</sub> = 3.4 V; other inputs at V <sub>CC</sub> or GND; $I_O = 0 A$ ; V <sub>CC</sub> = 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance		-	1.5	10	-	10	-	10	pF

# **11. Dynamic characteristics**

## Table 8. Dynamic characteristics

GND = 0 V; for test circuit see Fig. 7.

Symbol Parameter		er Conditions		25 °C			-40 °C to +85 °C		-40 °C to +125 °C	
			Min	Тур <mark>[1]</mark>	Мах	Min	Мах	Min	Мах	
74AHC20	G125-Q100									
pu	propagation	nA to nY; see Fig. 5 [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	11.5	ns
		$V_{CC}$ = 3.0 V to 3.6 V; C <sub>L</sub> = 50 pF	-	6.6	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	-	3.4	5.5	1.0	6.5	1.0	7.0	ns
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 50 pF	-	4.8	7.5	1.0	8.5	1.0	9.5	ns
t <sub>en</sub>	enable time	nOE to nY; see Fig. 6 [2]								
		$V_{CC}$ = 3.0 V to 3.6 V; C <sub>L</sub> = 15 pF	-	5.0	8.0	1.0	9.5	1.0	11.5	ns
		$V_{CC}$ = 3.0 V to 3.6 V; C <sub>L</sub> = 50 pF	-	6.9	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	5.1	1.0	6.0	1.0	6.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 50 pF	-	4.9	7.5	1.0	8.5	1.0	9.5	ns
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 6 [2]								
		$V_{CC}$ = 3.0 V to 3.6 V; C <sub>L</sub> = 15 pF	-	6.0	9.7	1.0	11.5	1.0	12.5	ns
		$V_{CC}$ = 3.0 V to 3.6 V; C <sub>L</sub> = 50 pF	-	8.3	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	-	4.1	6.8	1.0	8.0	1.0	8.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 50 pF	-	5.7	8.8	1.0	10.0	1.0	11.0	ns
10	power dissipation capacitance	per buffer; C <sub>L</sub> = 50 pF; f <sub>i</sub> = 1 MHz; [3] V <sub>I</sub> = GND to V <sub>CC</sub>	-	9	-	-	-	-	-	pF
74AHCT2	2G125-Q100									
P.4	propagation	nA to nY; see Fig. 5 [2]								
	delay	$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 15 pF	-	3.4	5.5	1.0	6.5	1.0	6.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 50 pF	-	4.8	7.5	1.0	8.5	1.0	8.5	ns
t <sub>en</sub>	enable time	nOE to nY; see Fig. 6 [2]								
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 15 pF	-	3.9	5.1	1.0	6.0	1.0	6.0	ns
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 50 pF	-	5.1	7.5	1.0	8.5	1.0	8.5	ns

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Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Typ [1]	Max	Min	Max	Min	Max	
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 6 [2]								
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 15 pF	-	4.5	6.8	1.0	8.0	1.0	8.0	ns
		$V_{CC}$ = 4.5 V to 5.5 V; C <sub>L</sub> = 50 pF	-	6.1	8.8	1.0	10.0	1.0	10.0	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; C <sub>L</sub> = 50 pF; $f_i$ = 1 MHz; [3] V <sub>I</sub> = GND to V <sub>CC</sub>	-	11	-	-	-	-	-	pF

[1]

Typical values are measured at T<sub>amb</sub> = 25 °C and V<sub>CC</sub> = 3.3 V and 5.0 V respectively. 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>. C<sub>PD</sub> is used to determine the dynamic power dissipation P<sub>D</sub> ( $\mu$ W). [2]

[3]

 $P_D = C_{PD} \times V_{CC}^2 \times f_i + \sum (C_L \times V_{CC}^2 \times f_o)$  where:

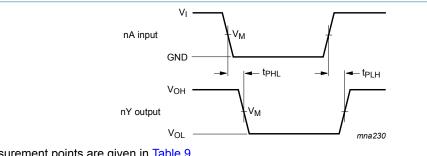
 $f_i$  = input frequency in MHz;

fo = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

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

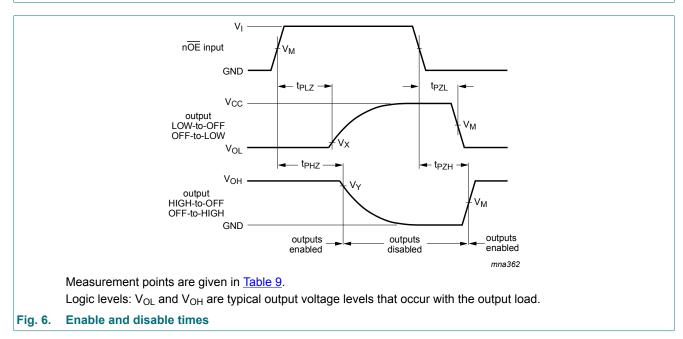
## 11.1. Waveforms and test circuit



Measurement points are given in Table 9.

Logic levels: V<sub>OL</sub> and V<sub>OH</sub> are typical output voltage levels that occur with the output load.

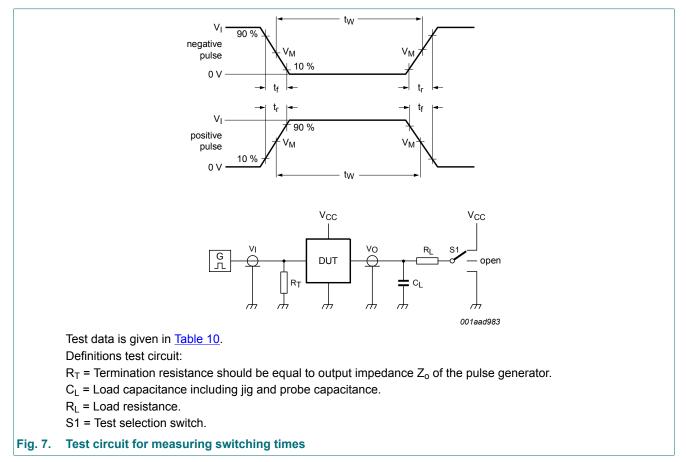
#### Input (nA) to output (nY) propagation delays Fig. 5.



74AHC\_AHCT2G125\_Q100

Туре	Input	Output	Output						
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>					
74AHC2G125-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					
74AHCT2G125-Q100	1.5 V	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V					

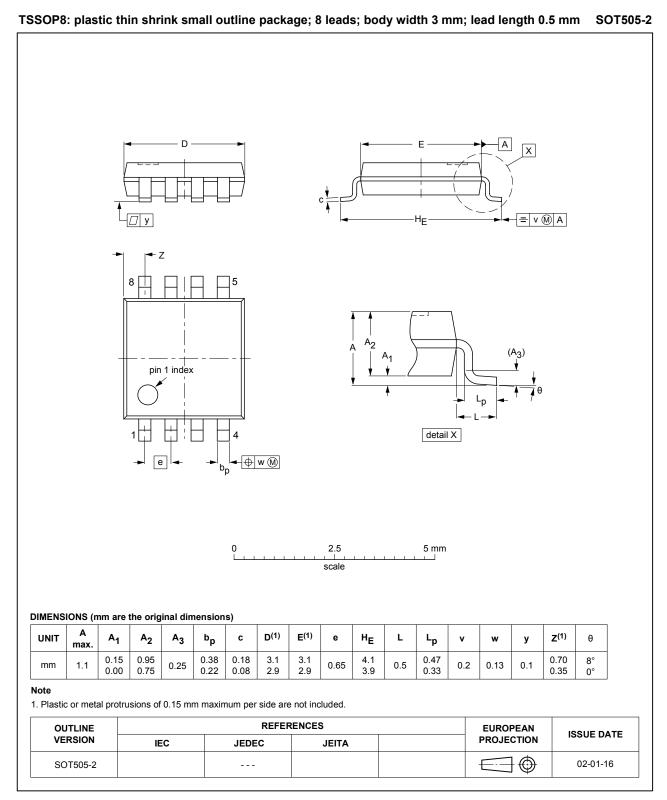




### Table 10. Test data

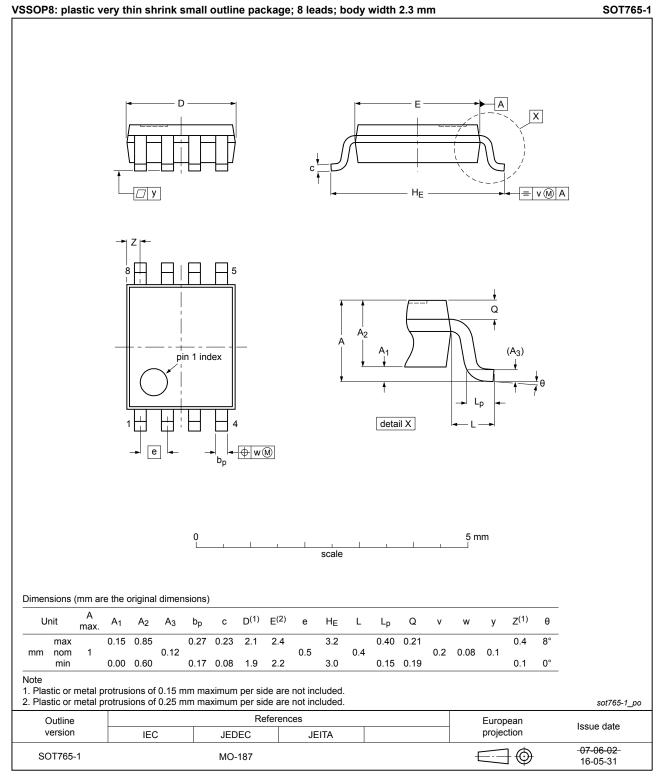
Туре	Input I		Load		S1 position		
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
74AHC2G125-Q100	V <sub>CC</sub>	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74AHCT2G125-Q100	3 V	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>

# 12. Package outline



## Fig. 8. Package outline SOT505-2 (TSSOP8)

74AHC\_AHCT2G125\_Q100





# 13. Abbreviations

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MIL	Military
MM	Machine Model
TTL	Transistor-Transistor Logic

# 14. Revision history

Table 12. Revision history							
Document ID	Release date	Data sheet status	Change notice	Supersedes			
74AHC_AHCT2G125_Q100 v.2	20190102	Product data sheet	-	74AHC_AHCT2G125_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>Package outline drawing <u>SOT765-1</u> (VSSOP8) updated.</li> </ul>						
74AHC_AHCT2G125_Q100 v.1	20140311	Product data sheet	-	-			

# 15. 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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#### Dual buffer/line driver; 3-state

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