# 74HC2G125-Q100; 74HCT2G125-Q100 Dual buffer/line driver; 3-state

Rev. 3 — 16 November 2023

Product data sheet

## 1. General description

The 74HC2G125-Q100; 74HC2G125-Q100 are dual buffer/line drivers with 3-state outputs controlled by the output enable inputs (nOE). Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

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
- Input levels:
  - For 74HC2G125-Q100: CMOS level
  - For 74HCT2G125-Q100: TTL level
- CMOS low power dissipation
- · High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standard: JESD7A (4.5 V to 5.5 V)
- 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			
74HC2G125DP-Q100 74HCT2G125DP-Q100	-40 °C to +125 °C		plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2			
74HC2G125DC-Q100 74HCT2G125DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1			



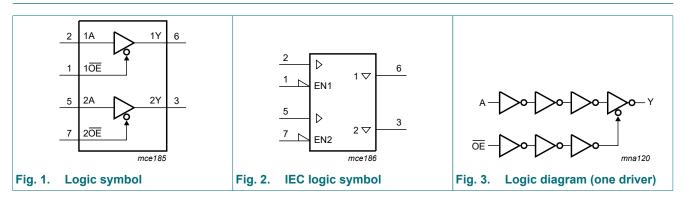
# 4. Marking

## Table 2. Marking codes

Type number	Marking code[1]
74HC2G125DP-Q100	H25
74HCT2G125DP-Q100	T25
74HC2G125DC-Q100	H25
74HCT2G125DC-Q100	T25

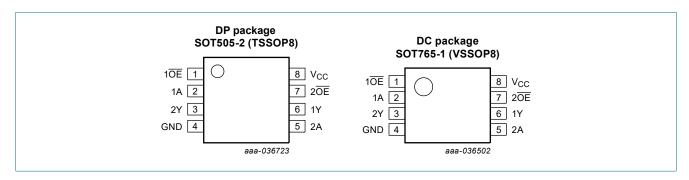
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 5. Functional diagram



# 6. Pinning information

## 6.1. Pinning



## 6.2. Pin description

Table 3. Pin description

Tuble 6.1 in description						
Symbol	Pin	Description				
1 <del>OE</del> , 2 <del>OE</del>	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				

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# 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
$V_{CC}$	supply voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
Io	output current	$V_{\rm O} = -0.5 \text{ V to } (V_{\rm CC} + 0.5 \text{ V})$ [1]	-	35	mA
I <sub>CC</sub>	supply current		-	70	mA
$I_{GND}$	ground current		-70	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ [2]	-	250	mW

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

# 9. Recommended operating conditions

## Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74H	74HC2G125-Q100			74HCT2G125-Q100			
			Min	Тур	Max	Min	Тур	Max		
$V_{CC}$	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	
		$V_{CC} = 6.0 \text{ V}$	-	-	83	-	-	-	ns/V	

<sup>[2]</sup> For SOT505-2 (TSSOP8) package: P<sub>tot</sub> derates linearly with 4.6 mW/K above 96 °C. For SOT765-1 (VSSOP8) package: P<sub>tot</sub> derates linearly with 4.9 mW/K above 99 °C.

# 10. Static characteristics

## **Table 7. Static characteristics**

Voltages are referenced to GND (ground = 0 V). All typical values are measured at  $T_{amb}$  = 25 °C.

Symbol	Parameter	Conditions	T <sub>amb</sub> =	-40 °C to	+85 °C	T <sub>amb</sub> = -40 °	C to +125 °C	Unit
			Min	Тур	Max	Min	Max	
74HC2G	125-Q100		·	'	·		'	
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	V
	voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	V
	voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	V
		I <sub>O</sub> = -6.0 mA; V <sub>CC</sub> = 4.5 V	3.84	4.32	-	3.7	-	V
		I <sub>O</sub> = -7.8 mA; V <sub>CC</sub> = 6.0 V	5.34	5.81	-	5.2	-	V
V <sub>OL</sub>	LOW-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.33	-	0.4	V
		$I_O = 7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.33	-	0.4	V
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±1.0	-	±1.0	μΑ
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 6.0$ V	-	-	±5.0	-	±10	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	10	-	20	μΑ
C <sub>I</sub>	input capacitance		-	1.0	-	-	-	pF
Co	output capacitance		-	1.5	-	-	-	pF

Symbol Parameter		Conditions	T <sub>amb</sub> =	-40 °C to	+85 °C	T <sub>amb</sub> = -40 °	C to +125 °C	Unit
			Min	Тур	Max	Min	Max	
74HCT2	G125-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	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level output	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$						
	voltage	Ι <sub>Ο</sub> = -20 μΑ	4.4	4.5	-	4.4	-	V
		I <sub>O</sub> = -6.0 mA	3.84	4.32	-	3.7	-	V
V <sub>OL</sub>	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$						
	voltage	Ι <sub>Ο</sub> = 20 μΑ	-	0	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA	-	0.16	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±1.0	-	±1.0	μA
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±5.0	-	±10	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	10	-	20	μA
ΔI <sub>CC</sub>	additional supply current	per input; V <sub>CC</sub> = 4.5 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 2.1 V; I <sub>O</sub> = 0 A	-	-	375	-	410	μΑ
Cı	input capacitance		-	1.0	-	-	-	pF
Co	output capacitance		-	1.5	-	-	-	pF

# 11. Dynamic characteristics

## **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V);  $C_L$  = 50 pF unless otherwise specified; for test circuit see Fig. 6.

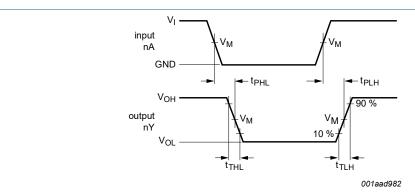
Symbol	Parameter	Conditions		T <sub>amb</sub> =	= -40 °C to	+85 °C	T <sub>amb</sub> = -40	°C to +125 °C	Unit
				Min	Typ [1]	Max	Min	Max	1
74HC2G	125-Q100						,		
t <sub>pd</sub>	propagation	nA to nY; see Fig. 4	[2]						
	delay	V <sub>CC</sub> = 2.0 V		-	35	115	-	135	ns
		V <sub>CC</sub> = 4.5 V		-	11	23	-	27	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF		-	10	-	-	-	ns
		V <sub>CC</sub> = 6.0 V		-	8	20	-	23	ns
t <sub>en</sub>	enable time	nOE to nY; see Fig. 5	[2]						
		V <sub>CC</sub> = 2.0 V		-	40	115	-	135	ns
		V <sub>CC</sub> = 4.5 V		-	11	23	-	27	ns
		V <sub>CC</sub> = 6.0 V		-	8	20	-	23	ns
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 5	[2]						
		V <sub>CC</sub> = 2.0 V		-	24	125	-	150	ns
		V <sub>CC</sub> = 4.5 V		-	12	25	-	30	ns
		V <sub>CC</sub> = 6.0 V		-	10	21	-	26	ns
t <sub>t</sub>	transition	see Fig. 4	[2]						
	time	V <sub>CC</sub> = 2.0 V		-	18	75	-	90	ns
		V <sub>CC</sub> = 4.5 V		-	6	15	-	18	ns
		V <sub>CC</sub> = 6.0 V		-	5	13	-	15	ns
C <sub>PD</sub>	power	per buffer; V <sub>I</sub> = GND to V <sub>CC</sub>	[3]						
	dissipation	output enabled		-	11	-	-	-	pF
	capacitance	output disabled		-	1	-	-	-	pF
74HCT2	G125-Q100				I .				
t <sub>pd</sub>	propagation	nA to nY; see Fig. 4	[2]						
	delay	V <sub>CC</sub> = 4.5 V		-	15	31	-	38	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF		-	12	-	-	-	ns
t <sub>en</sub>	enable time	nOE to nY; see Fig. 5; V <sub>CC</sub> = 4.5 V	[2]	-	15	35	-	42	ns
t <sub>dis</sub>	disable time	nOE to nY; see Fig. 5; V <sub>CC</sub> = 4.5 V	[2]	-	15	31	-	38	ns
t <sub>t</sub>	transition time	see <u>Fig. 4</u> ; V <sub>CC</sub> = 4.5 V	[2]	-	6	15	-	18	ns
C <sub>PD</sub>	power dissipation	per buffer; V <sub>I</sub> = GND to V <sub>CC</sub> - 1.5 V	[3]						
	capacitance	output enabled		-	11	-	-	-	pF
		output disabled		-	1	-	-	_	pF

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All typical values are measured at  $T_{amb}$  = 25 °C.  $t_{pd}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ ;  $t_{t}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ ;  $t_{t}$  is the same as  $t_{THL}$  and  $t_{TLH}$ .  $t_{CPD}$  is used to determine the dynamic power dissipation ( $P_{D}$  in  $\mu$ W).  $P_{D}$  =  $C_{PD}$  ×  $V_{CC}$   $^2$  ×  $f_{t}$  ×  $V_{CC}$   $^2$  ×  $f_{t}$  ) where:  $f_i$  = input frequency in MHz;  $f_o$  = 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 outputs.

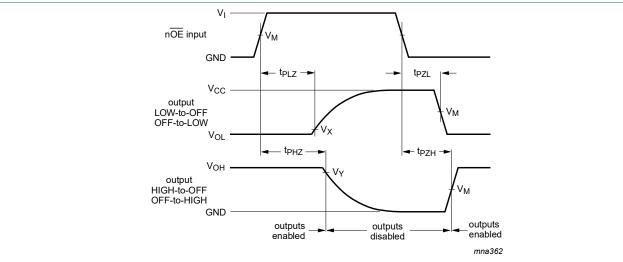
## 11.1. Waveforms and test circuit



Measurement points are given in Table 9.

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

Fig. 4. Propagation delays data input (nA) to output (nY)



Measurement points are given in Table 9.

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

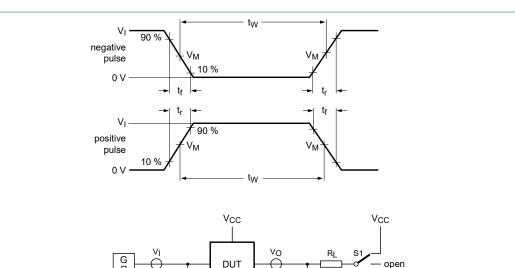
Fig. 5. Enable and disable times

**Table 9. Measurement points** 

Table 9. Medeal official points							
Туре	Input	Output	Output				
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
74HC2G125-Q100	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V			
74HCT2G125-Q100	1.3 V	1.3 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V			

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## Dual buffer/line driver; 3-state



Test data is given in Table 10.

Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator;

C<sub>L</sub> = Load capacitance including jig and probe capacitance;

R<sub>L</sub> = Load resistance;

S1 = Test selection switch.

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

Table 10. Test data

Туре	Input		Load		S1 position		
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	CL	$R_L$	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
74HC2G125-Q100	V <sub>CC</sub>	≤ 6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74HCT2G125-Q100	3 V	≤ 6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>

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# 12. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

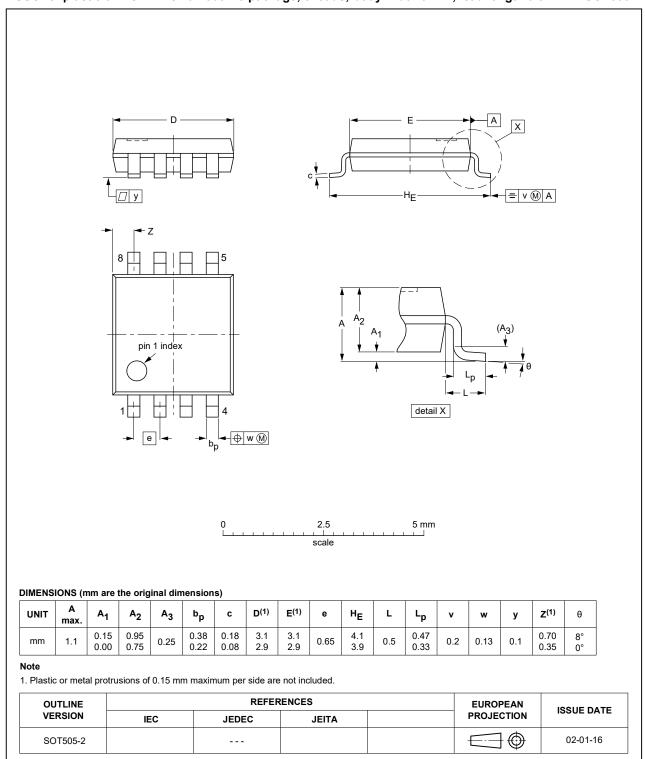


Fig. 7. Package outline SOT505-2 (TSSOP8)

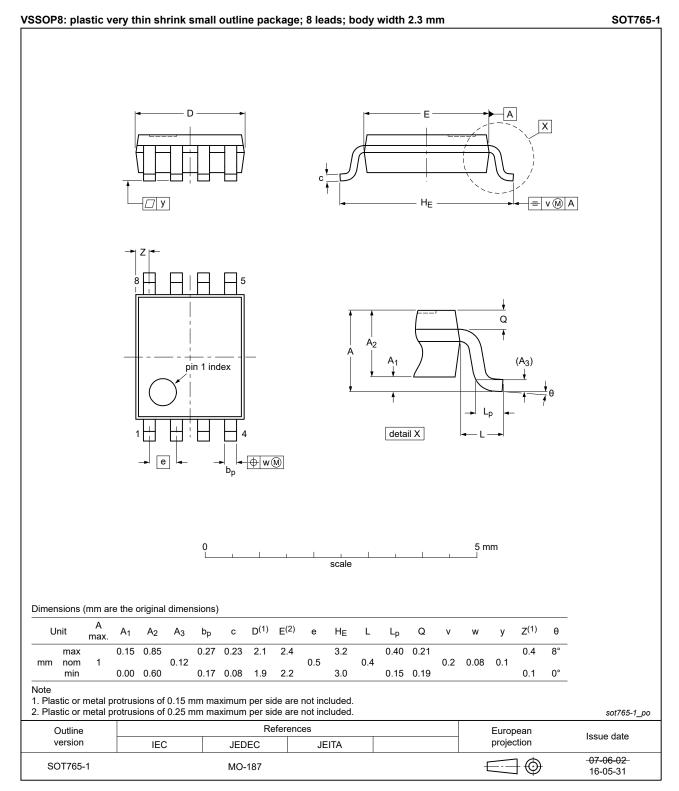


Fig. 8. Package outline SOT765-1 (VSSOP8)

## 13. Abbreviations

## **Table 11. Abbreviations**

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
TTL	Transistor-Transistor Logic

# 14. Revision history

## **Table 12. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC_HCT2G125_Q100 v.3	20231116	Product data sheet	-	74HC_HCT2G125_Q100 v.2	
Modifications:	<ul> <li><u>Section 2</u> updated.</li> <li><u>Section 2</u>: ESD specification updated according to the latest JEDEC standard.</li> <li><u>Section 8</u>: P<sub>tot</sub> and derating values for P<sub>tot</sub> total power dissipation updated.</li> </ul>				
74HC_HCT2G125_Q100 v.2	20181101	Product data sheet	-	74HC_HCT2G125_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> </ul>				
74HC_HCT2G125_Q100 v.1	20130403	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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