Dual buffer/line driver; 3-state

Rev. 6 — 8 November 2011

1. General description

The 74AHC2G126 and 74AHCT2G126 are high-speed Si-gate CMOS devices. They provide a dual non-inverting buffer/line driver with 3-state output. The 3-state output is controlled by the output enable input (nOE). A LOW at nOE 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.

2. Features and benefits

- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Multiple package options
- ESD protection:
 - ◆ HBM JESD22-A114E: exceeds 2000 V
 - MM JESD22-A115-A: exceeds 200 V
 - CDM JESD22-C101C: exceeds 1000 V
- Specified from –40 °C to +125 °C

3. Ordering information

Table 1.Ordering information

Type number	Package				
	Temperature range	Name	Description	Version	
74AHC2G126DP	–40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads;	SOT505-2	
74AHCT2G126DP			body width 3 mm; lead length 0.5 mm		
74AHC2G126DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package;	SOT765-1	
74AHCT2G126DC			8 leads; body width 2.3 mm		
74AHC2G126GD	–40 °C to +125 °C	XSON8U	plastic extremely thin small outline package; no	SOT996-2	
74AHCT2G126GD			leads; 8 terminals; UTLP based; body $3 \times 2 \times 0.5$ mm		



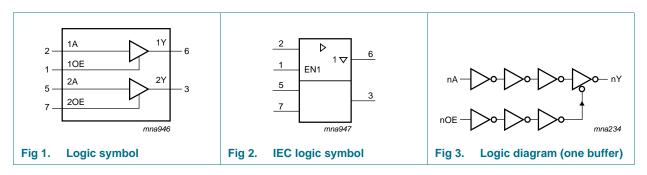
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4. Marking

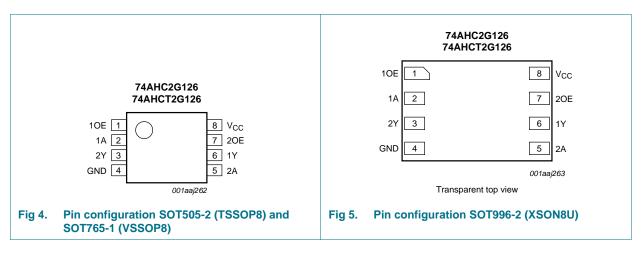
Table 2. Marking codes	
Type number	Marking ^[1]
74AHC2G126DP	A26
74AHCT2G126DP	C26
74AHC2G126DC	A26
74AHCT2G126DC	C26
74AHC2G126GD	A26
74AHCT2G126GD	C26

[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

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6.2 Pin description

Table 3.	Pin description	
Symbol	Pin	Description
10E, 20E	1, 7	output enable input (active HIGH)
1A, 2A	2, 5	data input
GND	4	ground (0 V)
1Y, 2Y	6, 3	data output
V _{CC}	8	supply voltage

7. Functional description

Table 4. Function table ^[1]		
Control	Input	Output
nOE	nA	nY
Н	L	L
Н	Н	Н
L	Х	Z

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

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
VI	input voltage		-0.5	+7.0	V
I _{IK}	input clamping current	V _I < -0.5 V	<u>[1]</u> –20	-	mA
I _{OK}	output clamping current	$V_{\rm O}$ < –0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	<u>[1]</u> _	±20	mA
I _O	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±25	mA
I _{CC}	supply current		-	75	mA
I _{GND}	ground current		-75	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 \ ^{\circ}C \ to +125 \ ^{\circ}C$	[2] _	250	mW

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

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 P_{tot} derates linearly with 8 mW/K.
 For XSON8U package: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

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9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter Conditions		74	AHC2G1	26	74/	Unit		
			Min	Тур	Max	Min	Тур	Max	
V_{CC}	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_{CC}	0	-	V_{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V_{CC} = 3.3 V \pm 0.3 V	-	-	100	-	-	-	ns/V
		V_{CC} = 5.0 V \pm 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		_40 °C	to +85 °C	–40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC2	G126									
VIH	HIGH-level	$V_{CC} = 2.0 V$	1.5	-	-	1.5	-	1.5	-	V
	input voltage	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} L	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
V _{ОН}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I_{O} = -50 μ A; V_{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		$I_O = -50 \ \mu\text{A}; \ V_{CC} = 3.0 \ \text{V}$	2.9	3.0	-	2.9	-	2.9	-	V
		$I_0 = -50 \ \mu A; \ V_{CC} = 4.5 \ V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_0 = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_{O} = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.8	-	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
		$I_0 = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		I_{O} = 8.0 mA; V_{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
l _{oz}	OFF-state output current	$V_I = V_{CC} \text{ or GND};$ $V_{CC} = 5.5 \text{ V}$	-	-	0.25	-	2.5	-	10	μA
I	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
СС	supply current		-	-	1.0	-	10	-	40	μA

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Symbol	Parameter	Conditions		25 °C		_40 °C	to +85 °C	_40 °C	to +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
CI	input capacitance		-	1.5	10	-	10	-	10	pF
74AHCT	2G126									
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
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
		I _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	-	-	3.8	-	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
		l _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
l _{oz}	OFF-state output current	$V_I = V_{CC} \text{ or GND};$ $V_{CC} = 5.5 \text{ V}$	-	-	0.25	-	2.5	-	10	μA
l	input leakage current	$V_1 = 5.5 V \text{ or GND};$ $V_{CC} = 0 V \text{ to } 5.5 V$	-	-	0.1	-	1.0	-	2.0	μA
l _{cc}	supply current		-	-	1.0	-	10	-	40	μA
∆l _{CC}	additional supply current	per input pin; V _I = 3.4 V; other inputs at V _{CC} or GND; $I_O = 0 A$; V _{CC} = 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance		-	1.5	10	-	10	-	10	pF

Table 7. Static characteristics ...continued Voltages are referenced to GND (ground = 0 V).

11. Dynamic characteristics

Table 8. Dynamic characteristics

GND = 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		Unit
				Min	Тур	Max	Min	Max	Min	Max	
74AHC2G126											
t _{pd}	propagation delay	nA to nY; see Figure 6	<u>[1]</u>								
		V_{CC} = 3.0 V to 3.6 V	[2]								
		C _L = 15 pF		-	4.7	8.0	1.0	9.5	1.0	11.5	ns
		C _L = 50 pF		-	6.6	11.5	1.0	13.0	1.0	14.5	ns
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	3.4	5.5	1.0	6.5	1.0	7.0	ns
		$C_L = 50 \text{ pF}$		-	4.8	7.5	1.0	8.5	1.0	9.5	ns

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Symbol	Parameter	Conditions	Conditions		25 °C			to +85 °C	–40 °C to +125 °C		Unit
				Min	Тур	Max	Min	Max	Min	Max	1
en	enable time	nOE to nY; see Figure 7	<u>[1]</u>								
		V_{CC} = 3.0 V to 3.6 V	[2]								
		C _L = 15 pF		-	5.0	8.0	1.0	9.5	1.0	11.5	ns
		C _L = 50 pF		-	6.9	11.5	1.0	13.0	1.0	14.5	ns
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	3.6	5.1	1.0	6.0	1.0	6.5	ns
		C _L = 50 pF		-	4.9	7.5	1.0	9.0	1.0	9.5	ns
dis	disable time	nOE to nY; see Figure 7	<u>[1]</u>								
		V_{CC} = 3.0 V to 3.6 V	[2]								
		C _L = 15 pF		-	6.0	9.7	1.0	11.5	1.0	12.5	ns
		C _L = 50 pF		-	8.3	13.2	1.0	15.0	1.0	16.5	ns
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	4.1	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF		-	5.7	8.8	1.0	10.0	1.0	11.0	ns
C _{PD}	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}; f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	<u>[4]</u>	-	10	-	-	-	-	-	pF
74АНСТ	2G126										
pd	propagation	nA to nY; see Figure 6	[1]								
	delay	V_{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	3.4	5.5	1.0	6.5	1.0	7.0	ns
		C _L = 50 pF		-	4.8	7.5	1.0	8.5	1.0	9.5	ns
en	enable time	nOE to nY; see Figure 7	[1]								
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	3.9	5.1	1.0	6.0	1.0	6.5	ns
		C _L = 50 pF		-	5.1	7.5	1.0	9.0	1.0	9.5	ns
dis	disable time	nOE to nY; see Figure 7	<u>[1]</u>								
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	4.5	6.8	1.0	8.0	1.0	8.5	ns
		C _L = 50 pF		-	6.1	8.8	1.0	10.0	1.0	11.0	ns

Table 8. Dynamic characteristics ...continued GND = 0 V: for test circuit see Figure 8.

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Symbol	Parameter	Conditions	25 °C		–40 °C to +85 °C		–40 °C to +125 °C		Unit		
				Min	Тур	Max	Min	Max	Min	Max	
C _{PD}		per buffer; $C_L = 50 \text{ pF}; f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	<u>[4]</u>	-	10	-	-	-	-	-	pF
	the same as t _{PLI}										

Table 8. Dynamic characteristics ... continued

[2] Typical values are measured at V_{CC} = 3.3 V.

t_{dis} is the same as t_{PLZ} and t_{PHZ}.

[3] Typical values are measured at $V_{CC} = 5.0$ V.

[4] C_{PD} is used to determine the dynamic power dissipation P_D (μ W).

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

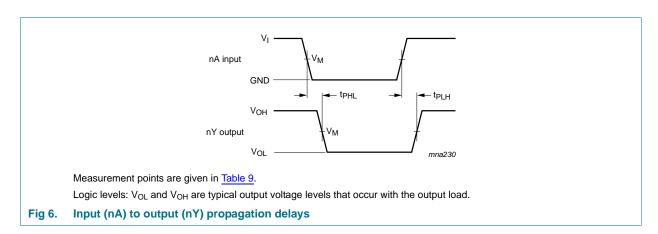
 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in Volts.

12. Waveforms



Dual buffer/line driver; 3-state

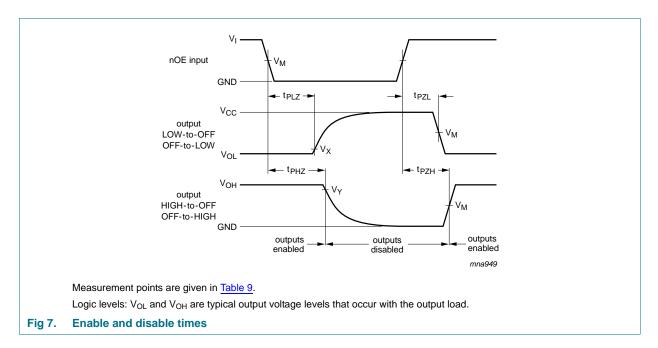


Table 9.Measurement points

Туре	Input	Output		
	V _M	V _M	V _X	V _Y
74AHC2G126	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V
74AHCT2G126	1.5 V	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} – 0.3 V

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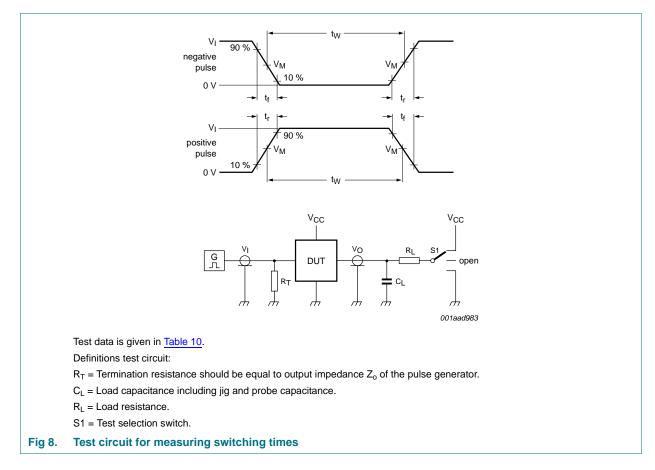


Table 10. Test data

Туре	Input		Load		S1 position		
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
74AHC2G126	V _{CC}	\leq 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}
74AHCT2G126	3 V	\leq 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}

Dual buffer/line driver; 3-state

13. Package outline

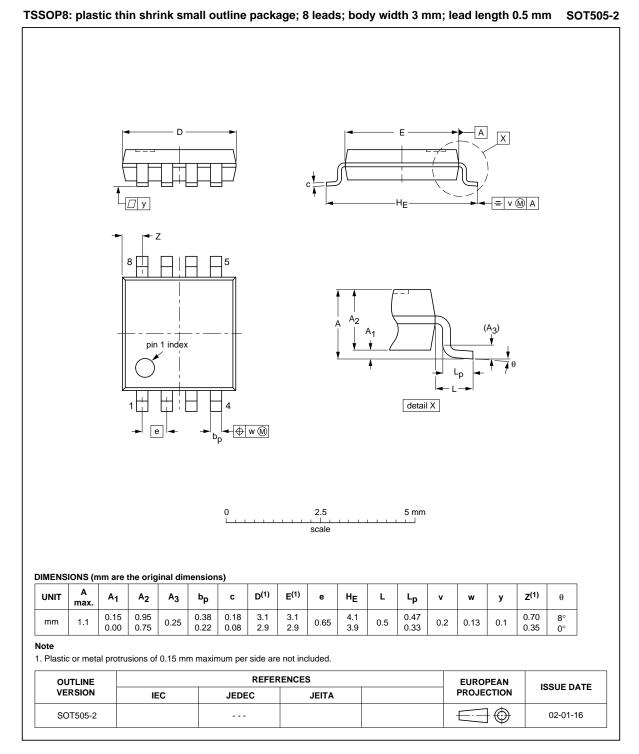


Fig 9. Package outline SOT505-2 (TSSOP8)

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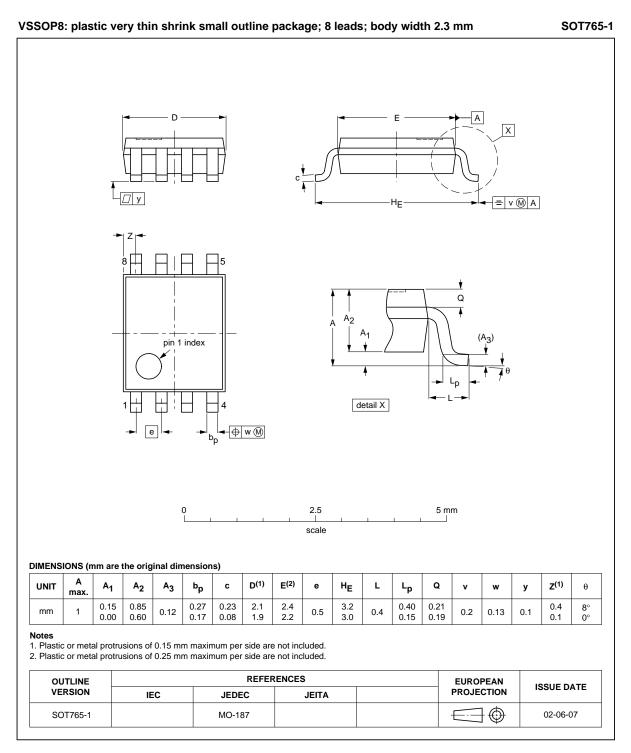
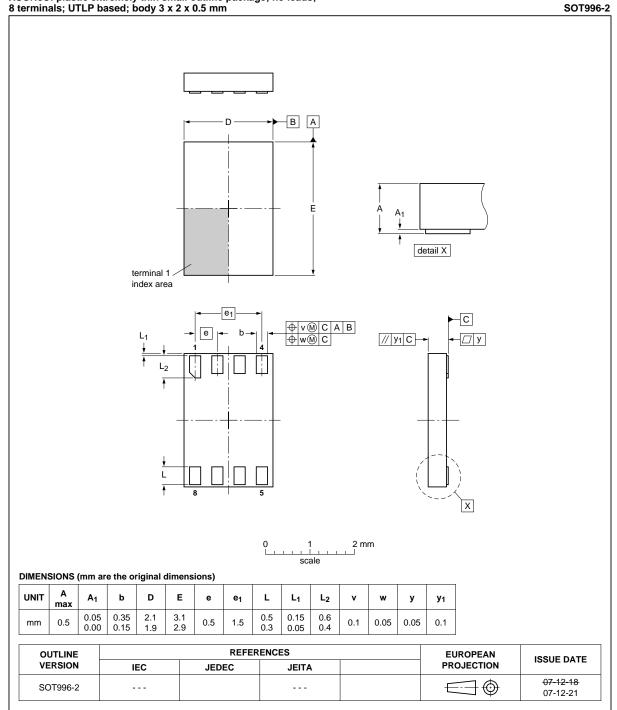


Fig 10. Package outline SOT765-1 (VSSOP8)

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XSON8U: plastic extremely thin small outline package; no leads; 8 terminals; UTLP based; body 3 x 2 x 0.5 mm

Fig 11. Package outline SOT996-2 (XSON8U)

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14. Abbreviations

Table 11.	Abbreviations
Acronym	Description
CMOS	Complementary Metal Oxide Semiconductor
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

15. Revision history

Table 12. Revision history **Document ID Release date** Data sheet status **Change notice** Supersedes 74AHC_AHCT2G126 v.6 20111108 Product data sheet 74AHC_AHCT2G126 v.5 -Modifications: • Legal pages updated. 74AHC_AHCT2G126 v.5 20110324 Product data sheet -74AHC_AHCT2G126 v.4 74AHC_AHCT2G126 v.4 20090427 Product data sheet 74AHC_AHCT2G126 v.3 -74AHC_AHCT2G126 v.3 Product data sheet 20090115 74AHC_AHCT2G126 v.2 -74AHC_AHCT2G126 v.2 20040921 Product data sheet 74AHC_AHCT2G126 v.1 -74AHC_AHCT2G126 v.1 20040113 Product specification --

16. Legal information

16.1 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".

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

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