# 74HC2G126; 74HCT2G126

Dual buffer/line driver; 3-state

Rev. 04 — 24 September 2009

**Product data sheet** 

### 1. General description

The 74HC2G126; 74HCT2G126 is a high-speed Si-gate CMOS device.

The 74HC2G126; 74HCT2G126 provides two non-inverting buffer/line drivers with 3-state output. The 3-state output is controlled by the output enable input pin nOE. A LOW at pin nOE causes the output to assume a high-impedance OFF-state.

The bus driver output currents are equal compared to the 74HC126 and 74HCT126.

#### 2. Features

- Wide operating voltage from 2.0 V to 6.0 V
- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- ESD protection:
  - ◆ HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

# 3. Ordering information

Table 1. Ordering information

Type number	Package							
	Temperature range	Name	Description	Version				
74HC2G126DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads;	SOT505-2				
74HCT2G126DP			body width 3 mm; lead length 0.5 mm					
74HC2G126DC	–40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads;	SOT765-1				
74HCT2G126DC			body width 2.3 mm					
74HC2G126GD	–40 °C to +125 °C	XSON8U	plastic extremely thin small outline package; no leads;	SOT996-2				
74HCT2G126GD			8 terminals; UTLP based; body $3 \times 2 \times 0.5$ mm					



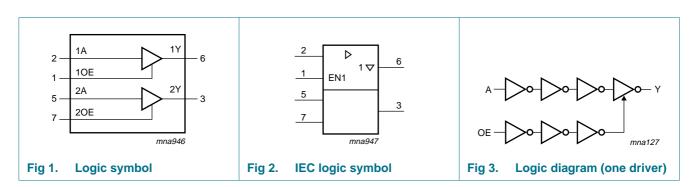
### 4. Marking

Table 2. Marking codes[1]

Type number	Marking code
74HC2G126DP	H26
74HCT2G126DP	T26
74HC2G126DC	H26
74HCT2G126DC	T26
74HC2G126GD	H26
74HCT2G126GD	T26

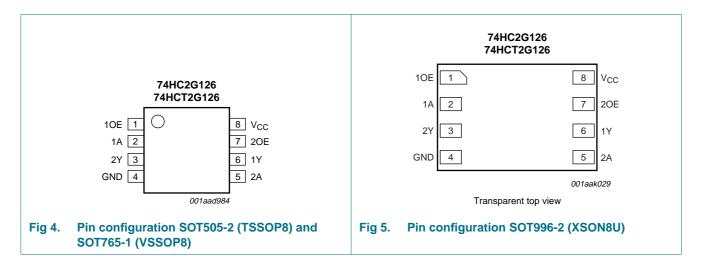
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

### 5. Functional diagram



## 6. Pinning information

#### 6.1 Pinning



#### 6.2 Pin description

Table 3. Pin description

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

# 7. Functional description

Table 4. Function table[1]

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

<sup>[1]</sup> 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
I <sub>IK</sub>	input clamping current	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±20	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> _	±20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	<u>[1]</u> _	±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		[2] _	300	mW

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

<sup>[2]</sup> 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.

# 9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74HC2G126			74HCT2G126			Unit
			Min	Тур	Max	Min	Тур	Max	
$V_{CC}$	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
$V_{I}$	input voltage		0	-	$V_{CC}$	0	-	$V_{CC}$	V
$V_{O}$	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	$V_{CC} = 2.0 \text{ V}$	-	-	625	-	-	-	ns/V
	and fall rate	$V_{CC} = 4.5 \text{ V}$	-	1.67	139	-	1.67	139	ns/V
		$V_{CC} = 6.0 \text{ V}$	-	-	83	-	-	-	ns/V

### 10. Static characteristics

Table 7. Static characteristics

Voltages are referenced to GND (ground = 0 V). All typical values are measured at T<sub>amb</sub> = 25 °C.

Symbol	Parameter	Conditions		$T_{amb}$ = -40 °C to +85 °C			$T_{amb}$ = -40 °C to +125 °C		
			Min	Тур	Max	Min	Max		
74HC2G1	26				'	'	'		
$V_{IH}$	HIGH-level input	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	V	
	voltage	$V_{CC} = 4.5 \text{ V}$	3.15	2.4	-	3.15	-	V	
		$V_{CC} = 6.0 \text{ V}$	4.2	3.2	-	4.2	-	V	
$V_{IL}$	LOW-level input	$V_{CC} = 2.0 \text{ V}$	-	0.8	0.5	-	0.5	V	
	voltage	$V_{CC} = 4.5 \text{ V}$	-	2.1	1.35	-	1.35	V	
		$V_{CC} = 6.0 \text{ V}$	-	2.8	1.8	-	1.8	V	
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$							
	output voltage	$I_O = -20 \mu A$ ; $V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	V	
		$I_O$ = -20 $\mu$ A; $V_{CC}$ = 4.5 $V$	4.4	4.5	-	4.4	-	V	
		$I_O$ = -20 $\mu$ A; $V_{CC}$ = 6.0 $V$	5.9	6.0	-	5.9	-	V	
		$I_{O} = -6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.84	4.32	-	3.7	-	V	
		$I_{O} = -7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.34	5.81	-	5.2	-	V	
$V_{OL}$	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$							
	voltage	$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	V	
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	V	
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	0	0.1	-	0.1	V	
		$I_{O}$ = 6.0 mA; $V_{CC}$ = 4.5 V	-	0.15	0.33	-	0.4	V	
		$I_{O}$ = 7.8 mA; $V_{CC}$ = 6.0 V	-	0.16	0.33	-	0.4	V	
l <sub>l</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; $V_{CC} = 6.0 \text{ V}$	-	-	±5.0	-	±10	μΑ	

 Table 7.
 Static characteristics ...continued

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

Symbol Parameter		Conditions	$T_{amb}$ = -40 °C to +85 °C			$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ Unit		
			Min	Тур	Max	Min	Max	
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
Cı	input capacitance		-	1.0	-	-	-	pF
Co	output capacitance		-	1.5	-	-	-	pF
74HCT2G	126							
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	1.6	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	1.2	8.0	-	0.8	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$						
	output voltage	$I_O = -20 \mu A$	4.4	4.5	-	4.4	-	V
		$I_{O} = -6.0 \text{ mA}$	3.84	4.32	-	3.7	-	V
$V_{OL}$	•	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$						
	voltage	$I_O = 20 \mu A$	-	0	0.1	-	0.1	V
		$I_O = 6.0 \text{ mA}$	-	0.16	0.33	-	0.4	V
II	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±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; $V_{CC} = 5.5 \text{ V}$	-	-	±5.0	-	±10	
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	10	-	20	μΑ
$\Delta I_{CC}$	additional supply current	per input; $V_{CC}$ = 4.5 V to 5.5 V; $V_I = V_{CC} - 2.1$ V; $I_O = 0$ A	-	-	375	-	410	μΑ
C <sub>I</sub>	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);  $C_L = 50 \text{ pF}$  unless otherwise specified; for test circuit see Figure 8.

Symbol	Parameter Conditions			T <sub>amb</sub> =	–40 °C to	+85 °C	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ Unit		
				Min	Typ[1]	Max	Min	Max	
74HC2G	126								
Pu	propagation	nA to nY; see Figure 6	[2]						
	delay	V <sub>CC</sub> = 2.0 V	-	35	115	-	135	ns	
		$V_{CC} = 4.5 \text{ V}$		-	11	23	-	27	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$		-	10	-	-	-	ns
		V <sub>CC</sub> = 6.0 V		-	8	20	-	23	ns

 Table 8.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V);  $C_L = 50 \text{ pF}$  unless otherwise specified; for test circuit see Figure 8.

$t_{en} = t_{en} = t$	ns ns ns
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ns
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ns
$ t_{dis}                                    $	ns
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	ns
$ t_{t}                                  $	ns
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ns
$V_{CC} = 2.0 \text{ V} \qquad - & 18 & 73 & - & 90 \\ \hline V_{CC} = 4.5 \text{ V} \qquad - & 6 & 15 & - & 18 \\ \hline V_{CC} = 6.0 \text{ V} \qquad - & 5 & 13 & - & 15 \\ \hline C_{PD} \qquad & power \\ dissipation \\ capacitance & \hline output enabled & - & 11 & - & - & - \\ \hline output disabled & - & 1 & - & - & - \\ \hline \hline 0utput disabled & - & 1 & - & - & - \\ \hline \hline 74HCT2G126 & & & & & \\ \hline t_{pd} \qquad & propagation \\ delay & & \hline v_{CC} = 4.5 \text{ V} & - & 15 & 30 & - & 36 \\ \hline \end{array}$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ns
	ns
$\frac{\text{dissipation capacitance}}{\text{capacitance}} = \frac{\text{output enabled}}{\text{output disabled}} = - \frac{11}{1}$	ns
output disabled - 1 $\frac{74HCT2G126}{t_{pd}}$ propagation delay $\frac{nA \text{ to nY; see } Figure 6}{V_{CC} = 4.5 \text{ V}}$ $\frac{[2]}{V_{CC} = 4.5 \text{ V}}$ - 15 30 - 36	pF
t <sub>pd</sub> propagation delay propagation $V_{CC} = 4.5 \text{ V}$ propagat	pF
delay $V_{CC} = 4.5 \text{ V}$ - 15 30 - 36	
, ACC = 4.3 A	
V <sub>1</sub> = 5.0 V <sub>2</sub> C = 15.pE	ns
$v_{CC} = 3.0 \text{ v}, G_L = 13 \text{ pr}$	ns
t <sub>en</sub> enable time nOE to nY; see Figure 7;	ns
t <sub>dis</sub> disable time nOE to nY; see Figure 7;	ns
$t_t$ transition nY; see <u>Figure 6</u> ; $V_{CC}$ = 4.5 V	ns
$C_{PD}$ power per buffer; [3] dissipation $V_{I} = \text{GND to } V_{CC} - 1.5 \text{ V}$	
capacitance output enabled - 11	
output disabled - 1	pF

<sup>[1]</sup> All typical values are measured at  $T_{amb} = 25$  °C.

[2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

 $t_{en}$  is the same as  $t_{PZL}$  and  $t_{PZH}$ .

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

 $t_{t}$  is the same as  $t_{\text{THL}}$  and  $t_{\text{TLH}}.$ 

[3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

f<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = 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.

#### 12. Waveforms

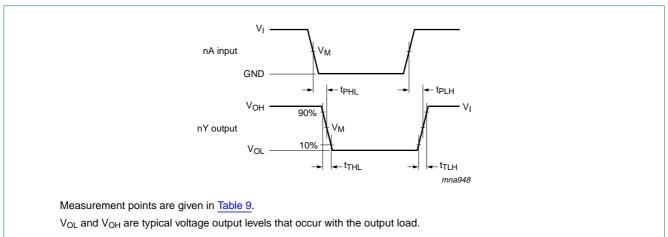


Fig 6. Propagation delay input (nA) to output (nY) and transition time output (nY)

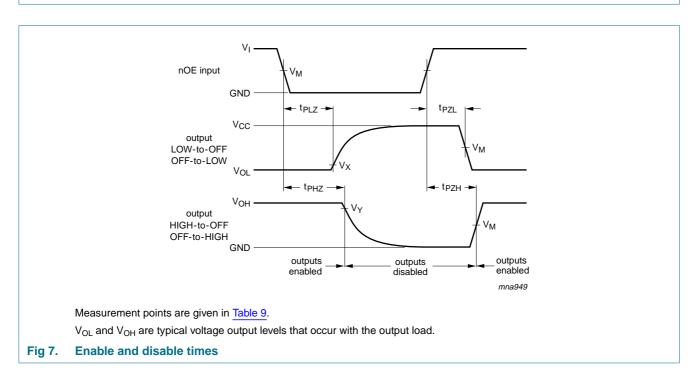
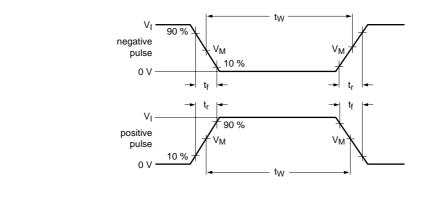
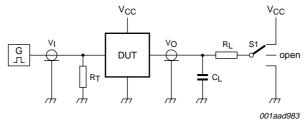


Table 9. Measurement points

Туре	Input	Output					
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
74HC2G126	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> – 0.3 V			
74HCT2G126	1.3 V	1.3 V	V <sub>OL</sub> + 0.3 V	$V_{OH} - 0.3 V$			





Test data is given in Table 10.

Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_0$  of the pulse generator.

 $C_L$  = Load capacitance including jig and probe capacitance.

R<sub>I</sub> = Load resistance.

S1 = Test selection switch.

Fig 8. Test circuit for measuring switching times

Table 10. 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>
74HC2G126	GND to $V_{CC}$	≤ 6 ns	15 pF, 50 pF	1 k $\Omega$	open	GND	V <sub>CC</sub>
74HCT2G126	GND to 3 V	≤ 6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>

# 13. Package outline

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

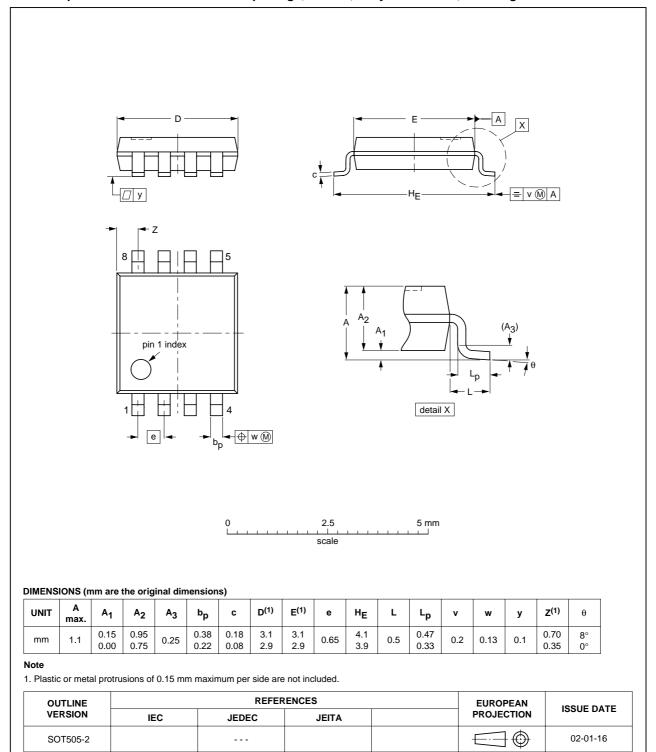
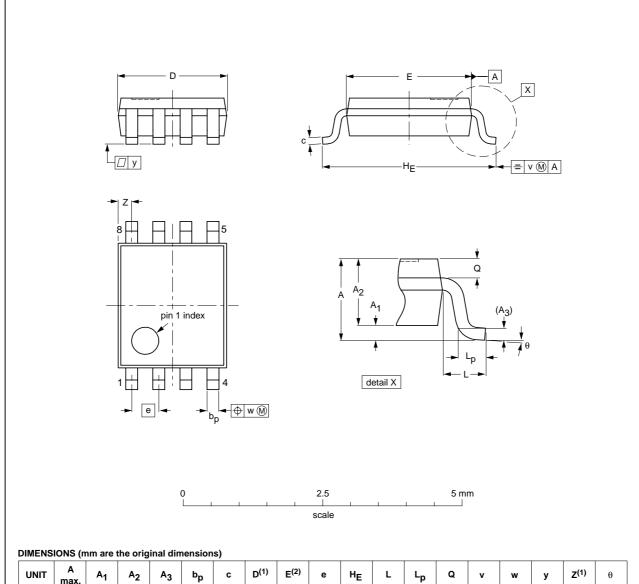


Fig 9. Package outline SOT505-2 (TSSOP8)

#### VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1



U	INIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(2)</sup>	е	HE	L	Lp	Q	v	w	у	Z <sup>(1)</sup>	θ
r	mm	1	0.15 0.00	0.85 0.60	0.12	0.27 0.17	0.23 0.08	2.1 1.9	2.4 2.2	0.5	3.2 3.0	0.4	0.40 0.15	0.21 0.19	0.2	0.13	0.1	0.4 0.1	8° 0°

#### Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT765-1		MO-187				02-06-07	

Fig 10. Package outline SOT765-1 (VSSOP8)

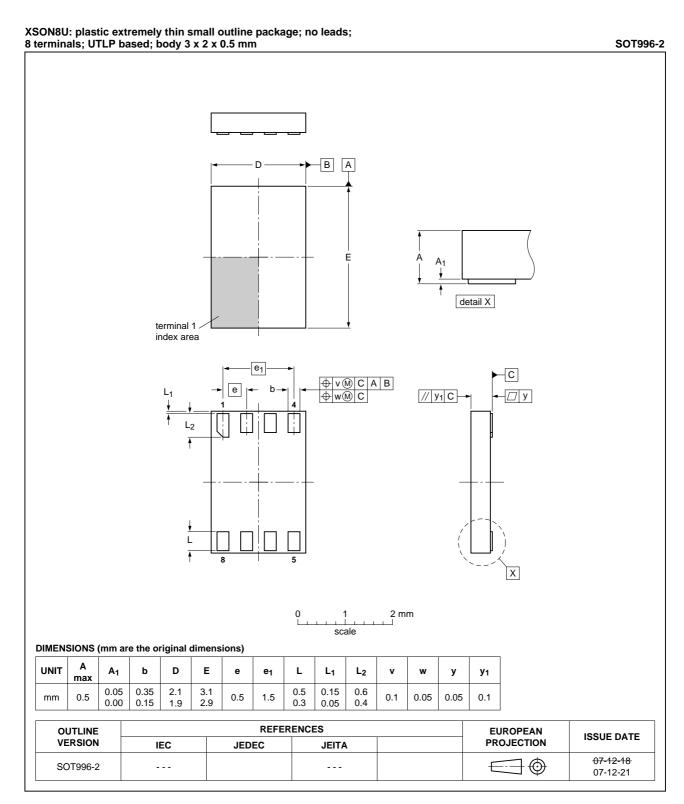


Fig 11. Package outline SOT996-2 (XSON8U)

### 14. Abbreviations

#### Table 11. Abbreviations

Acronym	Description
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model

# 15. Revision history

#### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74HC_HCT2G126_4	20090924	Product data sheet	-	74HC_HCT2G126_3				
Modifications:	• <u>Table 2</u> : Ma	rking codes table added.						
74HC_HCT2G126_3	20090507	Product data sheet	-	74HC_HCT2G126_2				
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> </ul>							
	<ul> <li>Legal texts</li> </ul>	have been adapted to the r	new company name whe	re appropriate.				
	<ul> <li>Quick refere</li> </ul>	ence data removed						
	<ul> <li>Added type</li> </ul>	numbers 74HC2G126GD	and 74HCT2G126GD (X	SON8U package)				
	<ul> <li>Section 8: c</li> </ul>	lerating factor for TSSOP8,	VSSOP8 and XSON8U	package added				
74HC_HCT2G126_2	20051215	Product data sheet	-	74HC_HCT2G126_1				
74HC_HCT2G126_1	20030303	Product data sheet	-	-				

### 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"
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For more information, please visit: http://www.nxp.com

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