Bus buffer/line driver; 3-state Rev. 07 — 17 June 2009

Product data sheet

#### **General description** 1.

74AHC1G126 and 74AHCT1G126 are high-speed Si-gate CMOS devices. They provide one non-inverting buffer/line driver with 3-state output. The 3-state output is controlled by the output enable input pin (OE). A LOW at pin 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.

#### **Features** 2.

- 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

#### **Ordering information** 3.

#### Table 1. **Ordering information**

Type number	Package									
	Temperature range	Name	Description	Version						
74AHC1G126GW	–40 °C to +125 °C	TSSOP5 plastic thin shrink small outline package; 5 leads;	SOT353-1							
74AHCT1G126GW			body width 1.25 mm							
74AHC1G126GV	–40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753						
74AHCT1G126GV										
74AHC1G126GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no	SOT886						
74AHCT1G126GM			leads; 6 terminals; body $1 \times 1.45 \times 0.5$ mm							
74AHC1G126GF	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package;	SOT891						
74AHCT1G126GF			no leads; 6 terminals; body $1 \times 1 \times 0.5$ mm							



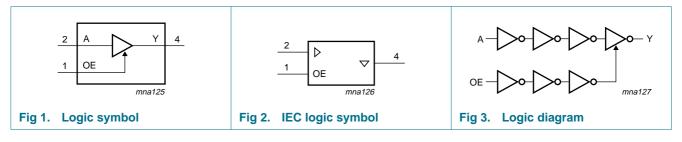
Bus buffer/line driver; 3-state

### 4. Marking

Table 2.   Marking codes	
Type number	Marking <sup>[1]</sup>
74AHC1G126GW	AN
74AHCT1G126GW	CN
74AHC1G126GV	A26
74AHCT1G126GV	C26
74AHC1G126GM	AN
74AHCT1G126GM	CN
74AHC1G126GF	AN
74AHCT1G126GF	CN

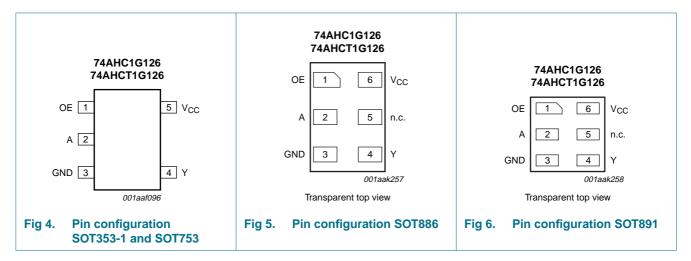
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

## 5. Functional diagram



## 6. Pinning information

### 6.1 Pinning



74AHC\_AHCT1G126\_7

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### 6.2 Pin description

Table 3.PiSymbol	n description Pin		Description
-	SOT353-1/SOT753	SOT886/SOT891	
OE	1	1	output enable input
A	2	2	data input A
GND	3	3	ground (0 V)
Y	4	4	data output Y
n.c.	-	5	not connected
V <sub>CC</sub>	5	6	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 OE	Output	
OE	A	Y
н	L	L
н	Н	Н
L	Х	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	<u>[1]</u> –20	-	mA
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ < –0.5 V or V_{\rm O} > V <sub>CC</sub> + 0.5 V	<u>[1]</u> _	±20	mA
lo	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±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	$T_{amb} = -40 \ ^{\circ}C \text{ to } +125 \ ^{\circ}C$	[2] _	250	mW
,					

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

[2] For TSSOP5 and SC-74A packages: above 87.5 °C the value of P<sub>tot</sub> derates linearly with 4.0 mW/K. For XSON6 packages: above 118 °C the value of P<sub>tot</sub> 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	AHC1G	126	74	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	-	$V_{CC}$	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
$\Delta t / \Delta V$	input transition rise	$V_{CC}$ = 3.3 V $\pm$ 0.3 V	-	-	100	-	-	-	ns/V
	and fall rate	$V_{CC}=5.0~V\pm0.5~V$	-	-	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 t	to +85 °C	–40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC1	G126									
VIH	HIGH-level	V <sub>CC</sub> = 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 <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V <sub>IL</sub>	LOW-level	$V_{CC} = 2.0 V$	-	-	0.5	-	0.5	-	0.5	V
	input voltage	$V_{CC} = 3.0 V$	-	-	0.9	-	0.9	-	0.9	V
		$V_{CC} = 5.5 V$	-	-	1.65	-	1.65	-	1.65	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{IH} \text{ or } V_{IL}$								
		$I_{O}$ = –50 $\mu A;$ $V_{CC}$ = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		$I_O$ = –50 $\mu A;  V_{CC}$ = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		$I_O = -50 \ \mu\text{A}; \ V_{CC} = 4.5 \ V$	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
		$I_{O}$ = –8.0 mA; $V_{CC}$ = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH} \text{ or } V_{IL}$								
	output voltage	$I_O$ = 50 $\mu A; V_{CC}$ = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O$ = 50 $\mu A; V_{CC}$ = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O$ = 50 $\mu A; V_{CC}$ = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		$I_{O}$ = 4.0 mA; $V_{CC}$ = 3.0 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 <sub>oz</sub>	OFF-state output current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{IH} \text{ or } V_{IL}; \ V_{O} = V_{CC} \text{ or} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	-	-	±0.25	-	±2.5	-	±10	μA
I	input leakage current	$V_I = 5.5 V \text{ or GND};$ $V_{CC} = 0 V \text{ to } 5.5 V$	-	-	0.1	-	1.0	-	2.0	μA
I <sub>CC</sub>	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = V_{CC} \text{ or } GND; \ I_{O} = 0 \ A; \\ V_{CC} = 5.5 \ V \end{array}$	-	-	2.0	-	20	-	40	μΑ

Bus buffer/line driver; 3-state

Symbol	Parameter	Conditions		25 °C		<b>−40</b> °C 1	to +85 °C	–40 °C t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
CI	input capacitance		-	3	10	-	10	-	10	pF
74AHCT	1G126									
VIH	HIGH-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
VIL	LOW-level input voltage	$V_{CC}$ = 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	I <sub>O</sub> = -50 μA	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>		$V_{\text{I}}$ = $V_{\text{IH}}$ or $V_{\text{IL}};$ $V_{\text{CC}}$ = 4.5 V								
	output voltage	l <sub>O</sub> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		l <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = V_{CC} \text{ or}$ GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	±10	μΑ
l <sub>l</sub>	input leakage current	$V_{I} = 5.5 V \text{ or GND};$ $V_{CC} = 0 V \text{ to } 5.5 V$	-	-	0.1	-	1.0	-	2.0	μΑ
I <sub>CC</sub>	supply current		-	-	2.0	-	20	-	40	μΑ
$\Delta I_{CC}$	additional supply current	per input pin; $V_I = V_{CC} - 2.1 V$ ; other inputs at $V_{CC}$ or GND; $I_O = 0 A$ ; $V_{CC} = 4.5 V$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance		-	3	10	-	10	-	10	pF

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

## **11. Dynamic characteristics**

#### Table 8. Dynamic characteristics

GND = 0 V; For test circuit see Figure 9.

Symbol	Parameter	Conditions			Conditions		25 °C		<b>−40</b> °C	to +85 °C	_40 °C t	o +125 °C	Unit
				Min	Тур	Max	Min	Max	Min	Max			
74AHC1G126													
t <sub>pd</sub>	t <sub>pd</sub> propagation delay	A to Y; see Figure 7	<u>[1]</u>										
		$V_{CC}$ = 3.0 V to 3.6 V	[2]										
		C <sub>L</sub> = 15 pF		-	4.4	8.0	1.0	9.5	1.0	10.0	ns		
		$C_L = 50 \text{ pF}$		-	6.3	11.5	1.0	13.0	1.0	14.5	ns		
		$V_{CC}$ = 4.5 V to 5.5 V	[3]										
		C <sub>L</sub> = 15 pF		-	3.4	5.5	1.0	6.5	1.0	7.0	ns		
		C <sub>L</sub> = 50 pF		-	4.7	7.5	1.0	8.5	1.0	9.5	ns		

Bus buffer/line driver; 3-state

Symbol	Parameter	Conditions	Conditions		25 °C		<b>−40</b> °C t	to +85 °C	–40 °C to +125 °C		Unit
				Min	Тур	Max	Min	Max	Min	Max	
en	enable time	OE to Y; see Figure 8	<u>[1]</u>								
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	[2]								
		C <sub>L</sub> = 15 pF		-	4.9	8.0	1.0	9.5	1.0	10.0	ns
		C <sub>L</sub> = 50 pF		-	7.0	11.5	1.0	13.0	1.0	14.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.6	5.6	1.0	6.3	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	5.4	8.0	1.0	9.0	1.0	9.5	ns
dis	disable time	OE to Y; see Figure 8	<u>[1]</u>								
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	[2]								
		C <sub>L</sub> = 15 pF		-	6.3	9.7	1.0	11.5	1.0	12.5	ns
		C <sub>L</sub> = 50 pF		-	9.0	13.2	1.0	15.0	1.0	16.5	ns
		$V_{CC}$ = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	4.3	6.8	1.0	8.0	1.0	8.5	ns
		C <sub>L</sub> = 50 pF		-	6.1	8.8	1.0	10.0	1.0	11.0	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}; \text{ f} = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	<u>[4]</u>	-	9	-	-	-	-	-	pF
74АНСТ	1G126										
pd	propagation	A to Y; see Figure 7	[1]								
	delay	$V_{CC}$ = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.4	5.5	1.0	6.5	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	4.7	7.5	1.0	8.5	1.0	9.5	ns
en	enable time	OE to Y; see Figure 8	<u>[1]</u>								
		$V_{CC}$ = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.4	5.6	1.0	6.3	1.0	6.5	ns
		C <sub>L</sub> = 50 pF		-	4.8	8.0	1.0	9.0	1.0	9.0	ns
dis	disable time	OE to Y; see Figure 8	<u>[1]</u>								
		$V_{CC}$ = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF			4.0	6.8	1.0	8.0	1.0	8.5	ns
		$C_{1} = 50 \text{ pF}$			5.7	8.8	1.0	10.0	1.0	11.5	ns

## Table 8. Dynamic characteristics ... continued GND = 0.V: For test circuit see Figure 9.

Bus buffer/line driver; 3-state

Symbol Parameter	Conditions		25 °C			–40 °C to +85 °C		−40 °C to +125 °C		Uni	
				Min	Тур	Max	Min	Max	Min	Max	
C <sub>PD</sub>		per buffer; $C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	<u>[4]</u>	-	11	-	-	-	-	-	pF

### Table 8. Dynamic characteristics ... continued

t<sub>en</sub> is the same as t<sub>PLL</sub> and t<sub>PLL</sub>. t<sub>dis</sub> is the same as t<sub>PLL</sub> and t<sub>PLL</sub>.

- $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .
- [2] Typical values are measured at V<sub>CC</sub> = 3.3 V.
- [3] Typical values are measured at V\_{CC} = 5.0 V.
- [4]  $C_{PD}$  is used to determine the dynamic power dissipation P<sub>D</sub> ( $\mu$ W).

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} + \sum (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$ 

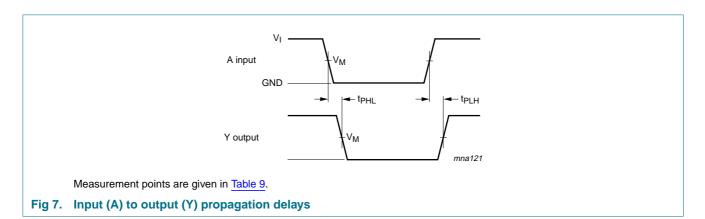
 $f_i$  = input frequency in MHz;

 $f_o$  = output frequency in MHz;

 $C_L$  = output load capacitance in pF;

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

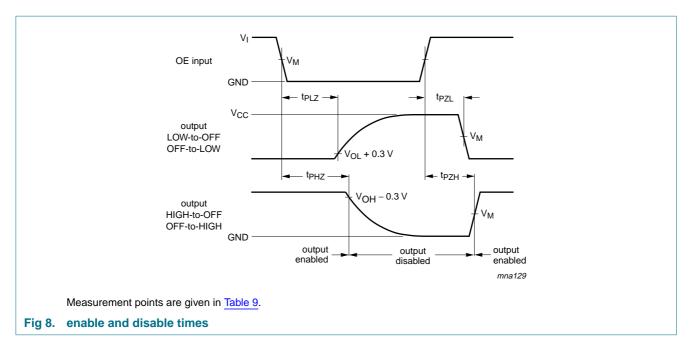
### 12. Waveforms



### **NXP Semiconductors**

# 74AHC1G126; 74AHCT1G126

Bus buffer/line driver; 3-state



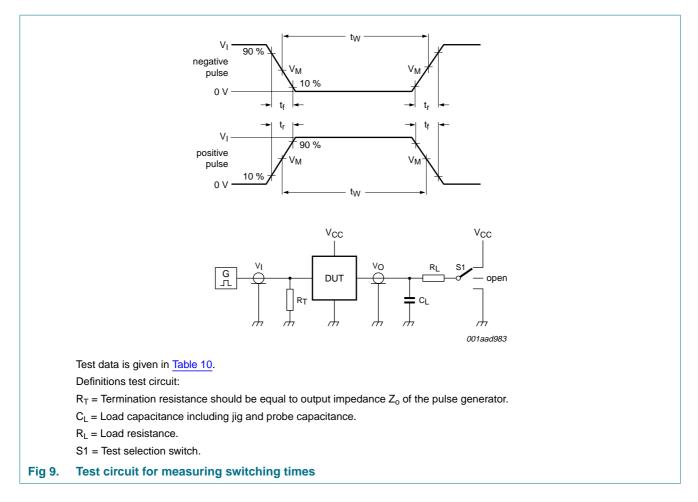
#### Table 9.Measurement points

Туре	Input	Output	
	V <sub>M</sub>	VI	V <sub>M</sub>
74AHC1G126	$0.5  imes V_{CC}$	GND to V <sub>CC</sub>	$0.5 \times V_{CC}$
74AHCT1G126	1.5 V	GND to 3.0 V	$0.5 \times V_{CC}$

### **NXP Semiconductors**

# 74AHC1G126; 74AHCT1G126

Bus buffer/line driver; 3-state

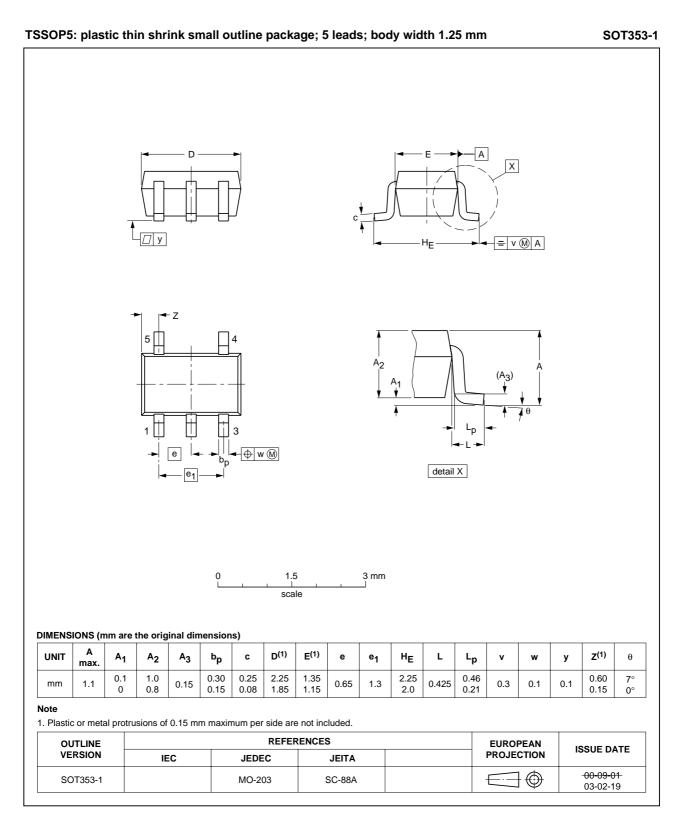


#### Table 10. Test data

Туре	Input		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>
74AHC1G126	V <sub>CC</sub>	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74AHCT1G126	3 V	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>

Bus buffer/line driver; 3-state

### 13. Package outline



#### Fig 10. Package outline SOT353-1 (TSSOP5)

Bus buffer/line driver; 3-state

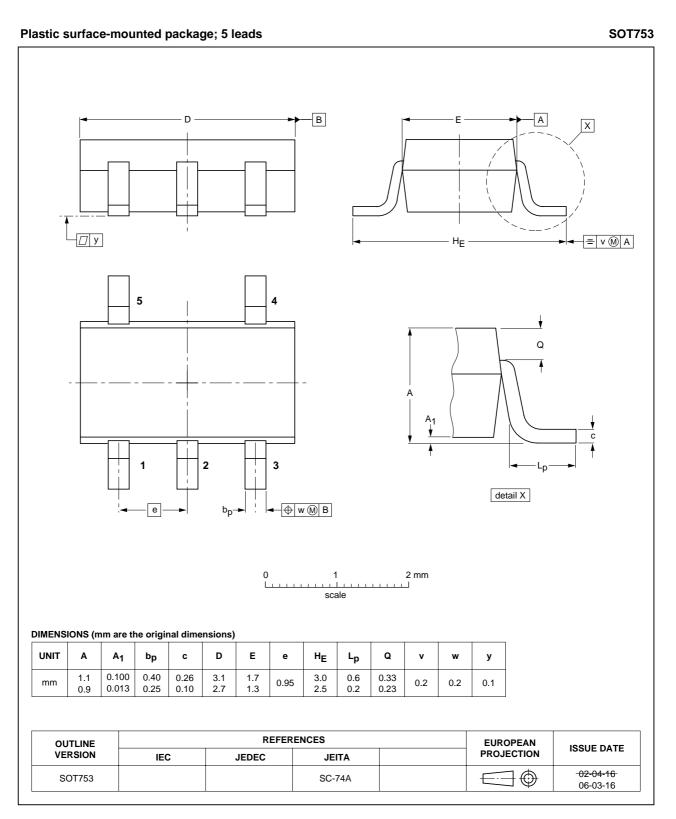


Fig 11. Package outline SOT753 (SC-74A)

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Bus buffer/line driver; 3-state

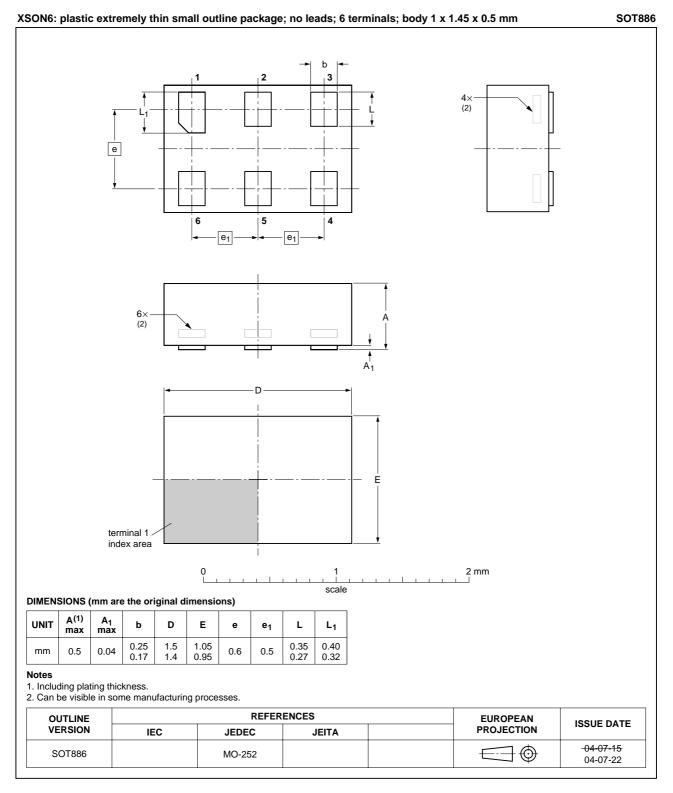
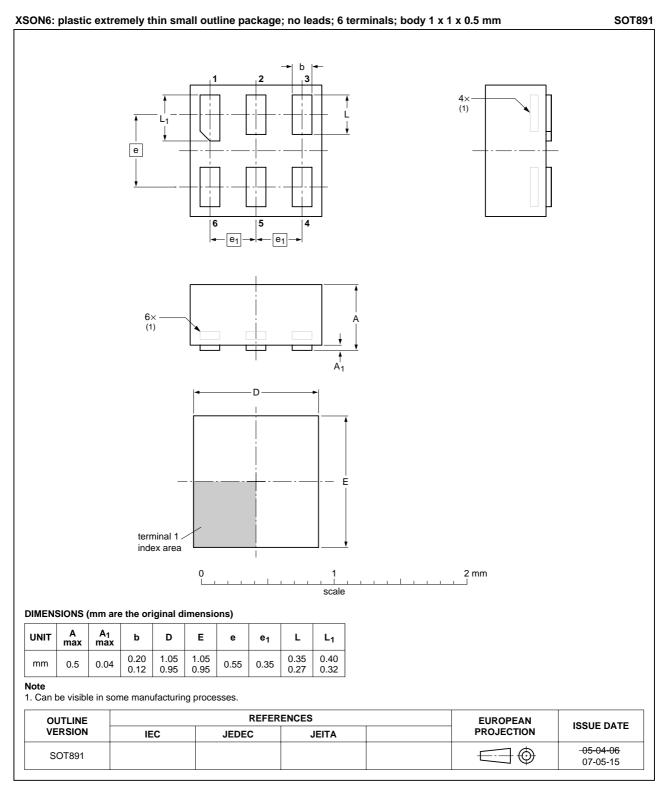


Fig 12. Package outline SOT886 (XSON6)

74AHC\_AHCT1G126\_7

Bus buffer/line driver; 3-state



#### Fig 13. Package outline SOT891 (XSON6)

74AHC\_AHCT1G126\_7

Product data sheet

Bus buffer/line driver; 3-state

## 14. Abbreviations

Table 11.	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_AHCT1G126_7	20090617	Product data sheet	-	74AHC_AHCT1G126_6
Modifications:		OT886 and SOT891 add and <u>Section 13</u> .	ed in <u>Section 2</u> , <u>Sect</u>	ion 3, Section 4, Section 6,
74AHC_AHCT1G126_6	20070525	Product data sheet	-	74AHC_AHCT1G126_5
74AHC_AHCT1G126_5	20070514	Product data sheet	-	74AHC_AHCT1G126_4
74AHC_AHCT1G126_4	20020606	Product specification	-	74AHC_AHCT1G126_3
74AHC_AHCT1G126_3	20020215	Product specification	-	74AHC_AHCT1G126_2
74AHC_AHCT1G126_2	20010406	Product specification	-	74AHC1G_AHCT1G126_1
74AHC1G_AHCT1G126_1	19990920	Product specification	-	-

### 16. Legal information

### 16.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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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Bus buffer/line driver; 3-state

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