Bus buffer/line driver; 3-state Rev. 8 — 23 August 2012

1. **General description**

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 and benefits 2.

- Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Multiple package options
- ESD protection:
 - HBM JESD22-A114F: exceeds 2000 V
 - MM JESD22-A115-A: exceeds 200 V
 - CDM JESD22-C101E: 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			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	



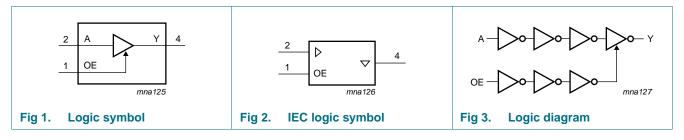
Bus buffer/line driver; 3-state

4. Marking

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

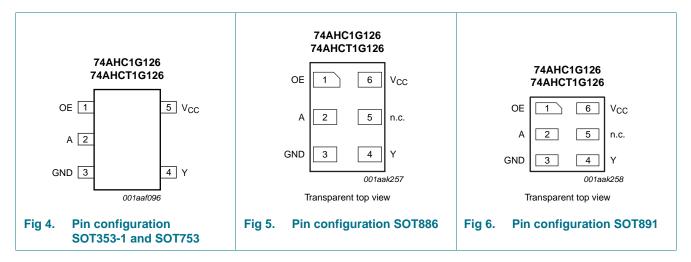
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1 Pinning



Bus buffer/line driver; 3-state

6.2 Pin description

Symbol	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 _{CC}	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	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 _{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
lo	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.

[2] For TSSOP5 and SC-74A packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K. For XSON6 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

Bus buffer/line driver; 3-state

9. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74AH0	C1G126		74AH0	74AHCT1G126		
			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	V_{CC} = 3.3 V \pm 0.3 V	-	-	100	-	-	-	ns/V
	and fall rate	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 t	to +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC1	G126					•				
V _{IH}	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}	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 _{OH}	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I_{O} = –50 $\mu\text{A};$ V_{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I_{O} = –50 $\mu\text{A};$ V_{CC} = 3.0 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
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	V
		$I_{\rm O}$ = –8.0 mA; $V_{\rm CC}$ = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	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
		$I_O = 50 \ \mu\text{A}; \ V_{CC} = 4.5 \ V$	-	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
I _{OZ}	OFF-state output current	$ V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = V_{CC} \text{ or } $	-	-	±0.25	-	±2.5	-	±10	μΑ
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 _{CC}	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	;	–40 °C	to +85 °C	−40 °C	to +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	-
CI	input capacitance		-	3	10	-	10	-	10	pF
74AHCT	1G126									
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	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	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 output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
		I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		l _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
I _{OZ}	OFF-state output current	$ V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = V_{CC} \text{ or } $	-	-	±0.25	-	±2.5	-	±10	μA
Ι _Ι	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
I _{CC}	supply current		-	-	2.0	-	20	-	40	μA
ΔI _{CC}	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$; other inputs at V_{CC} or GND; $I_O = 0 \text{ A}$; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance		-	3	10	-	10	-	10	pF

11. Dynamic characteristics

Table 8. **Dynamic characteristics**

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

Symbol	Parameter	Conditions		25 °C			_40 °C	to +85 °C	-40 °C 1	Unit	
				Min	Тур	Max	Min	Max	Min	Max	
74AHC1	G126						•				
t _{pd}	propagation	A to Y; see Figure 7	<u>[1]</u>								
	delay	V_{CC} = 3.0 V to 3.6 V	[2]								
		C _L = 15 pF		-	4.4	8.0	1.0	9.5	1.0	10.0	ns
		C _L = 50 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 _L = 15 pF		-	3.4	5.5	1.0	6.5	1.0	7.0	ns
		C _L = 50 pF		-	4.7	7.5	1.0	8.5	1.0	9.5	ns

Table 7 Static characteristics continued

74AHC_AHCT1G126 Product data sheet

Bus buffer/line driver; 3-state

Symbol	Parameter	Conditions			25 °C		–40 °C	to +85 °C	_40 °C	–40 °C to +125 °C	
				Min	Тур	Max	Min	Max	Min	Max	
en	enable time	OE to Y; see Figure 8	[1]				1	1			
		V_{CC} = 3.0 V to 3.6 V	[2]								
		C _L = 15 pF		-	4.9	8.0	1.0	9.5	1.0	10.0	ns
		C _L = 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 _L = 15 pF		-	3.6	5.6	1.0	6.3	1.0	7.0	ns
		C _L = 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>								
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	[2]								
		C _L = 15 pF		-	6.3	9.7	1.0	11.5	1.0	12.5	ns
		C _L = 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 _L = 15 pF		-	4.3	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
C _{PD}	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
74AHCT	1G126										
pd	propagation	A to Y; see Figure 7	[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		-	4.7	7.5	1.0	8.5	1.0	9.5	ns
en	enable time	OE to Y; see Figure 8	[1]								
		V_{CC} = 4.5 V to 5.5 V	[3]								
		C _L = 15 pF		-	3.4	5.6	1.0	6.3	1.0	6.5	ns
		C _L = 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 _L = 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 ... continuedGND = 0.VFor test circuit see Figure 9

Bus buffer/line driver; 3-state

Symbol	Parameter	meter 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; $C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	<u>[4]</u>	-	11	-	-	-	-	-	pF

Table 8. Dynamic characteristics ... continued

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

[2] Typical values are measured at V_{CC} = 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_D (μ W).

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

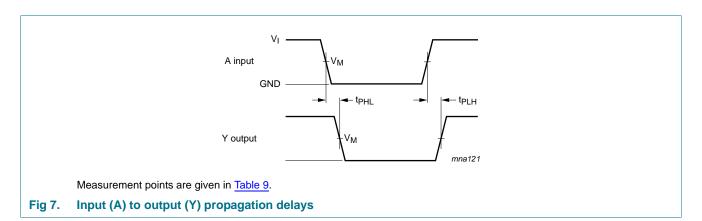
 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

 C_L = output load capacitance in pF;

V_{CC} = supply voltage in Volts.

12. Waveforms



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74AHC1G126; 74AHCT1G126

Bus buffer/line driver; 3-state

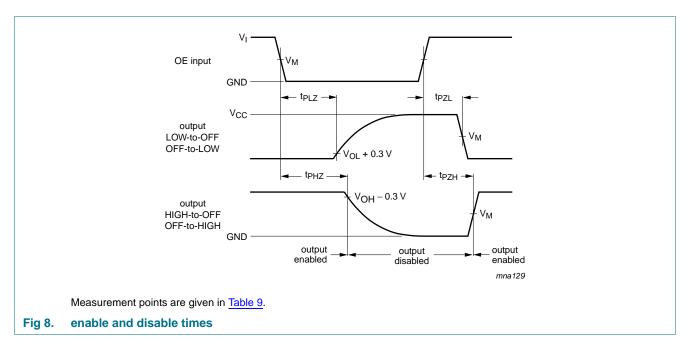


Table 9.Measurement points

Туре	Input	Output	
	V _M	VI	V _M
74AHC1G126	$0.5 imes V_{CC}$	GND to V _{CC}	$0.5 \times V_{CC}$
74AHCT1G126	1.5 V	GND to 3.0 V	$0.5\times V_{CC}$

NXP Semiconductors

74AHC1G126; 74AHCT1G126

Bus buffer/line driver; 3-state

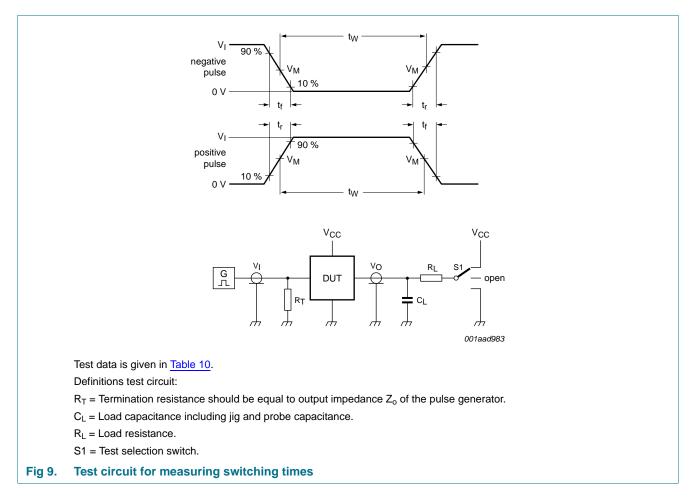


Table 10. Test data

Туре	Input		Load		S1 position		
	VI	t _r , t _f	CL	RL	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
74AHC1G126	V _{CC}	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}
74AHCT1G126	3 V	\leq 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}

Bus buffer/line driver; 3-state

13. Package outline

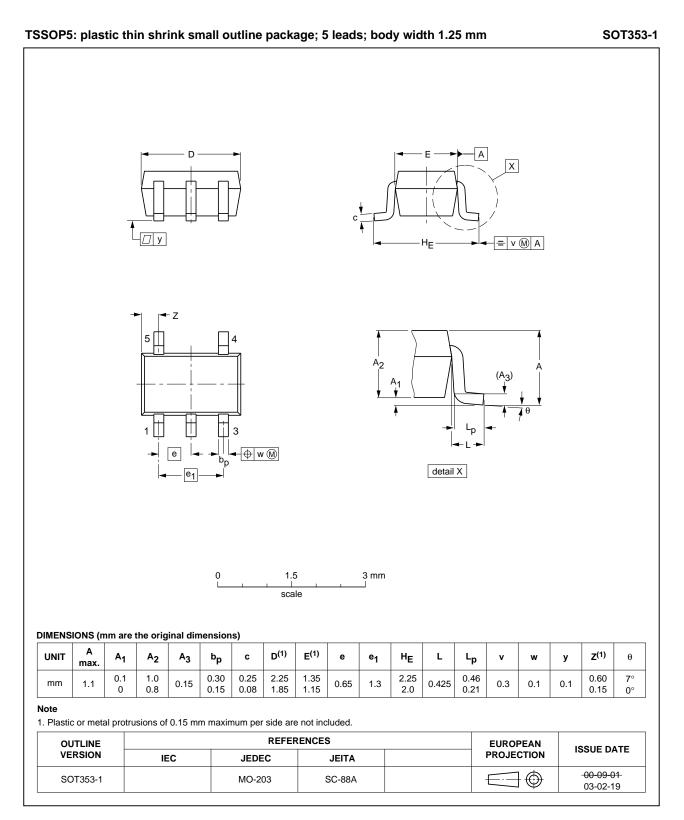


Fig 10. Package outline SOT353-1 (TSSOP5)

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Bus buffer/line driver; 3-state

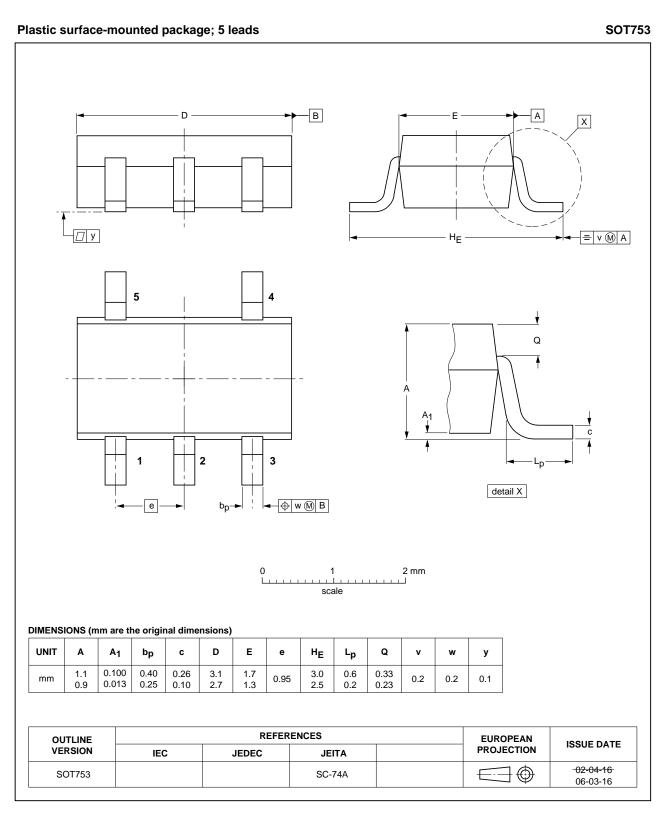


Fig 11. Package outline SOT753 (SC-74A)

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Bus buffer/line driver; 3-state

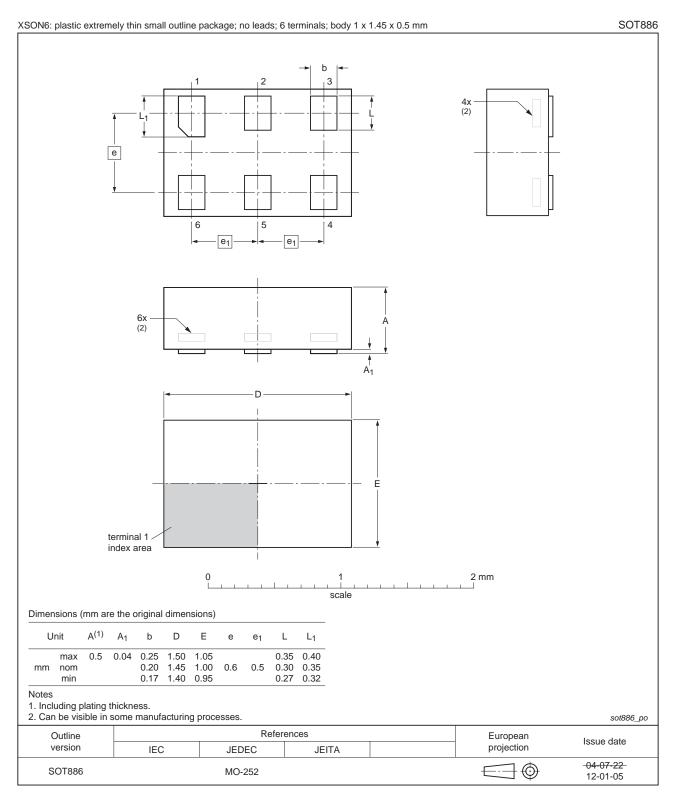


Fig 12. Package outline SOT886 (XSON6)

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Bus buffer/line driver; 3-state

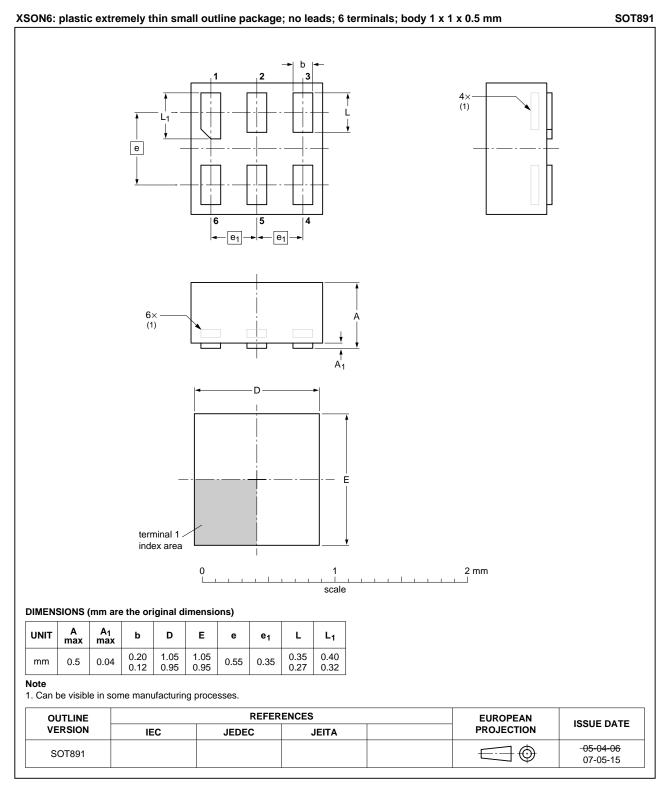


Fig 13. Package outline SOT891 (XSON6)

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Bus buffer/line driver; 3-state

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_AHCT1G126 v.8	20120823	Product data sheet	-	74AHC_AHCT1G126 v.7
Modifications:	 Package or 	utline drawing of SOT886	(Figure 12) modified	1.
74AHC_AHCT1G126 v.7	20090617	Product data sheet	-	74AHC_AHCT1G126 v.6
74AHC_AHCT1G126 v.6	20070525	Product data sheet	-	74AHC_AHCT1G126 v.5
74AHC_AHCT1G126 v.5	20070514	Product data sheet	-	74AHC_AHCT1G126 v.4
74AHC_AHCT1G126 v.4	20020606	Product specification	-	74AHC_AHCT1G126 v.3
74AHC_AHCT1G126 v.3	20020215	Product specification	-	74AHC_AHCT1G126 v.2
74AHC_AHCT1G126 v.2	20010406	Product specification	-	74AHC1G_AHCT1G126 v.1
74AHC1G_AHCT1G126 v.1	19990920	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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