Unbuffered inverter Rev. 12 — 9 April 2013

Product data sheet

1. General description

The 74LVC1GU04 is a single unbuffered inverter.

The input can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- High noise immunity
- ESD protection:
 - ◆ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- ± 24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Input accepts voltages up to 5 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
74LVC1GU04GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74LVC1GU04GV	–40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753
74LVC1GU04GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1.45 \times 0.5 mm	SOT886
74LVC1GU04GF	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body $1 \times 1 \times 0.5$ mm	SOT891
74LVC1GU04GN	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 \times 1.0 \times 0.35 mm	SOT1115
74LVC1GU04GS	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $1.0\times1.0\times0.35$ mm	SOT1202
74LVC1GU04GX	–40 °C to +125 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8 \times 0.8 \times 0.35$ mm	SOT1226



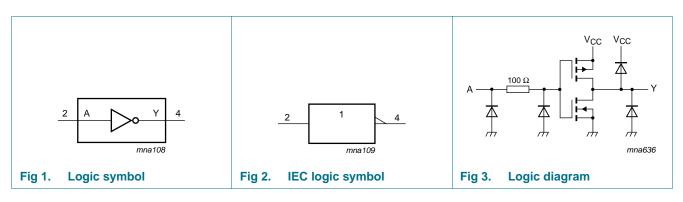


Marking 4.

Type number Marking ^[1]	
74LVC1GU04GW VD	
74LVC1GU04GV VU4	
74LVC1GU04GM VD	
74LVC1GU04GF VD	
74LVC1GU04GN VD	
74LVC1GU04GS VD	
74LVC1GU04GX VD	

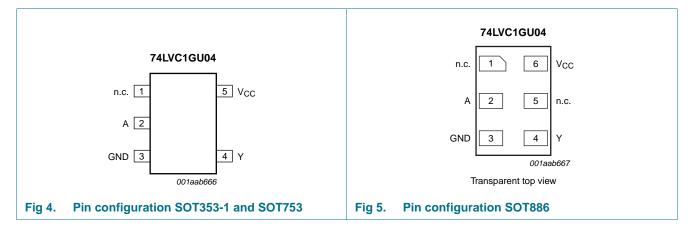
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

Functional diagram 5.



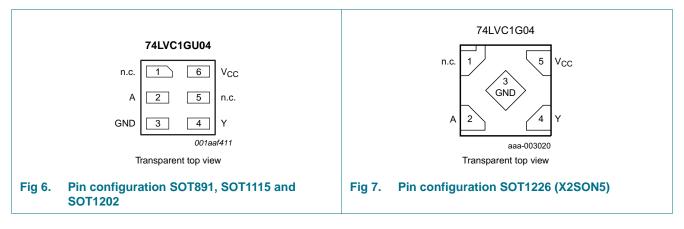
Pinning information 6.

6.1 Pinning



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6.2 Pin description

Symbol	Pin		Description	
	TSSOP5 and X2SON5	XSON6		
n.c.	1	1	not connected	
A	2	2	data input	
GND	3	3	ground (0 V)	
Y	4	4	data output	
n.c.	-	5	not connected	
V _{CC}	5	6	supply voltage	

7. Functional description

Table 4.Function table

Input (A)	Output (Y)
L	н
Н	L

[1] H = HIGH voltage level; L = LOW voltage level.

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	+6.5	V
I _{IK}	input clamping current	V _I < 0 V	-	-50	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
I _{OK}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V	-	±50	mA
Vo	output voltage	Active mode	<u>[1][2]</u> –0.5	V _{CC} + 0.5	V
lo	output current	$V_{O} = 0 V$ to V_{CC}	-	±50	mA
I _{CC}	supply current		-	+100	mA
I _{GND}	ground current		-	-100	mA
P _{tot}	total power dissipation	$T_{amb} = -40 \ ^{\circ}C \ to +125 \ ^{\circ}C$	[3] _	250	mW
T _{stg}	storage temperature		-65	+150	°C

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

[2] When $V_{CC} = 0$ V (Power-down mode), the output voltage can be 5.5 V in normal operation.

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

For XSON6 and X2SON5 packages: 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).

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	Active mode	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	-	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V_{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		$V_{CC} = 2.7 \text{ V} \text{ to } 5.5 \text{ V}$	0	-	10	ns/V

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10. Static characteristics

Static characteristics Table 7.

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Typ <mark>[1]</mark>	Max	Unit
T _{amb} = -	40 °C to +85 °C					
VIH	HIGH-level input voltage	V_{CC} = 1.65 V to 5.5 V	$0.75 \times V_{CC}$	-	-	V
VIL	LOW-level input voltage	V_{CC} = 1.65 V to 5.5 V	-	-	$0.25 \times V_{CC}$	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	$V_{CC}-0.1$	-	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	-	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.3	-	-	V
	$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	-	-	V	
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	V
		$I_0 = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	V
		$I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.3	V
		$I_0 = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	V
		$I_0 = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	V
		$I_{O} = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.55	V
l	input leakage current	$V_{\rm I}$ = 5.5 V or GND; $V_{\rm CC}$ = 0 V to 5.5 V	-	±0.1	±5	μΑ
I _{CC}	supply current	$V_{I} = 5.5 V \text{ or GND}; I_{O} = 0 A;$ $V_{CC} = 1.65 V \text{ to } 5.5 V$	-	0.1	10	μΑ
CI	input capacitance	V_{CC} = 3.3 V; V_{I} = GND to V_{CC}	-	6	-	pF
T _{amb} = –	40 °C to +125 °C					
VIH	HIGH-level input voltage	V_{CC} = 1.65 V to 5.5 V	$0.8\times V_{CC}$	-	-	V
V _{IL}	LOW-level input voltage	V_{CC} = 1.65 V to 5.5 V	-	-	$0.2\times V_{CC}$	V
V _{он}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	$V_{CC}-0.1$	-	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	0.95	-	-	V
		I_O = -8 mA; V_{CC} = 2.3 V	1.7	-	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	1.9	-	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.0	-	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.4		-	V

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Table 7. Static characteristics ...continued

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Typ <mark>[1]</mark>	Max	Unit
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH}$ or V_{IL}				
	I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	V	
	$I_0 = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.7	V	
		$I_0 = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.45	V
		$I_0 = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.6	V
		$I_0 = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.80	V
		$I_0 = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.80	V
I	input leakage current	V_{I} = 5.5 V or GND; V_{CC} = 0 V to 5.5 V	-	±0.1	±5	μA
I _{CC}	supply current	$V_1 = 5.5 V \text{ or GND}; I_0 = 0 A;$ $V_{CC} = 1.65 V \text{ to } 5.5 V$	-	-	200	μΑ

[1] All typical values are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C.

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 11.

Symbol	Parameter	Conditions		–40 °C to +85 °C			–40 °C to +125 °C		Unit
				Min	Typ <mark>[1]</mark>	Max	Min	Max	
t _{pd}	propagation delay	A to Y; see Figure 8	[2]						
	V_{CC} = 1.65 V to 1.95 V		0.3	1.7	5.0	0.3	6.5	ns	
		V_{CC} = 2.3 V to 2.7 V		0.3	1.3	4.0	0.3	5.5	ns
		$V_{CC} = 2.7 V$		0.5	1.7	5.0	0.5	6.5	ns
		V_{CC} = 3.0 V to 3.6 V		0.5	1.6	3.7	0.5	5.0	ns
		V_{CC} = 4.5 V to 5.5 V		0.5	1.3	3.0	0.5	4.0	ns
C _{PD}	power dissipation capacitance	$V_I = GND$ to V_{CC} ; $V_{CC} = 3.3 V$	<u>[3]</u>	-	14.9	-	-	-	pF

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

- [3] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).
 - $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$ 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 V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}{}^2 \times f_o)$ = sum of outputs.

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



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12. Waveforms

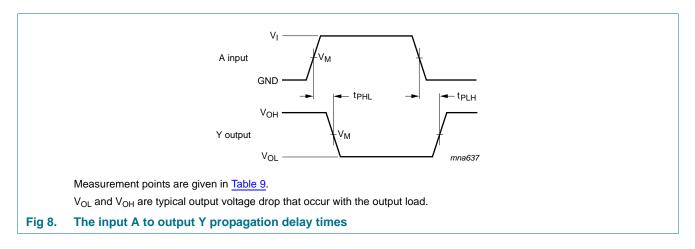
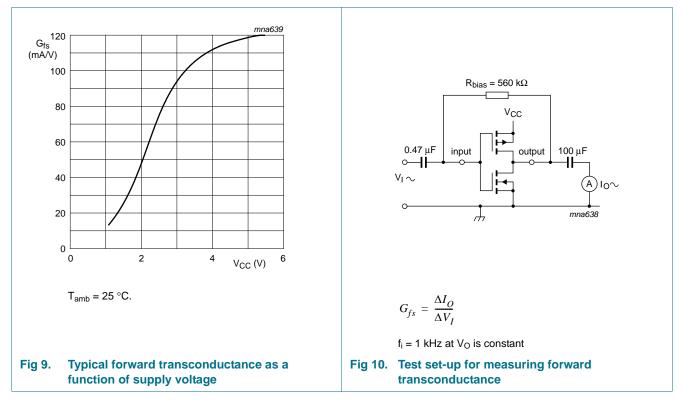


Table 9. Measurement points

Supply voltage	Input	Output	
V _{cc}	V _M	V _M	
1.65 V to 1.95 V	$0.5 imes V_{CC}$	$0.5 \times V_{CC}$	
2.3 V to 2.7 V	$0.5 imes V_{CC}$	$0.5 imes V_{CC}$	
2.7 V	1.5 V	1.5 V	
3.0 V to 3.6 V	1.5 V	1.5 V	
4.5 V to 5.5 V	$0.5 imes V_{CC}$	$0.5 imes V_{CC}$	



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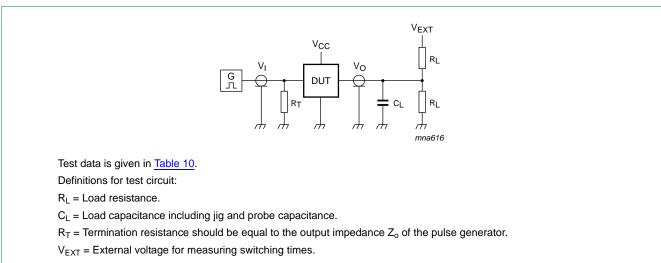


Fig 11. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input		Load		V _{EXT}
V _{CC}	VI	$t_r = t_f$	CL	RL	t _{PLH} , t _{PHL}
1.65 V to 1.95 V	V _{CC}	\leq 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V _{CC}	\leq 2.0 ns	30 pF	500 Ω	open
2.7 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open
3.0 V to 3.6 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open
4.5 V to 5.5 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open

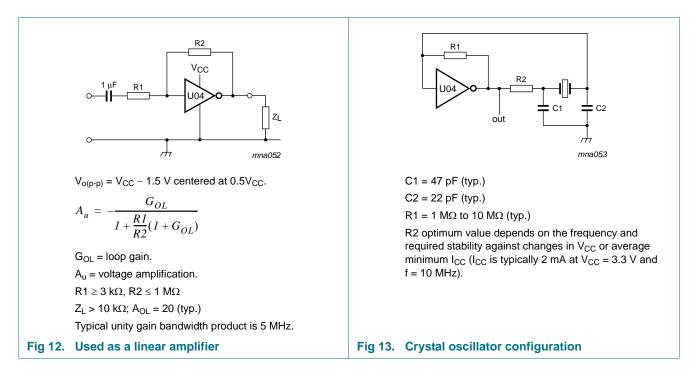


13. Application information

Some applications are:

- Linear amplifier (see Figure 12)
- In crystal oscillator design (see Figure 13)

Remark: All values given are typical unless otherwise specified.



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14. Package outline

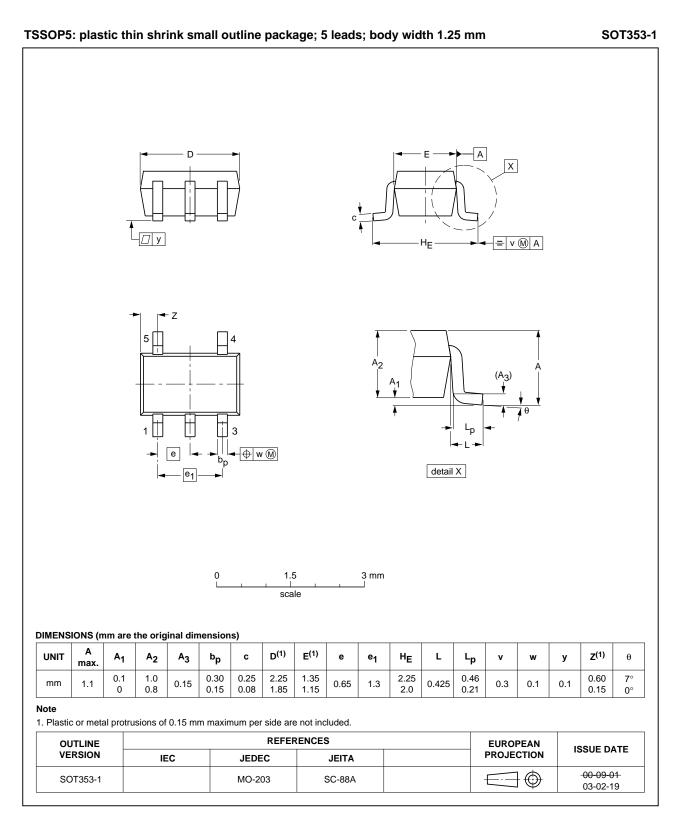
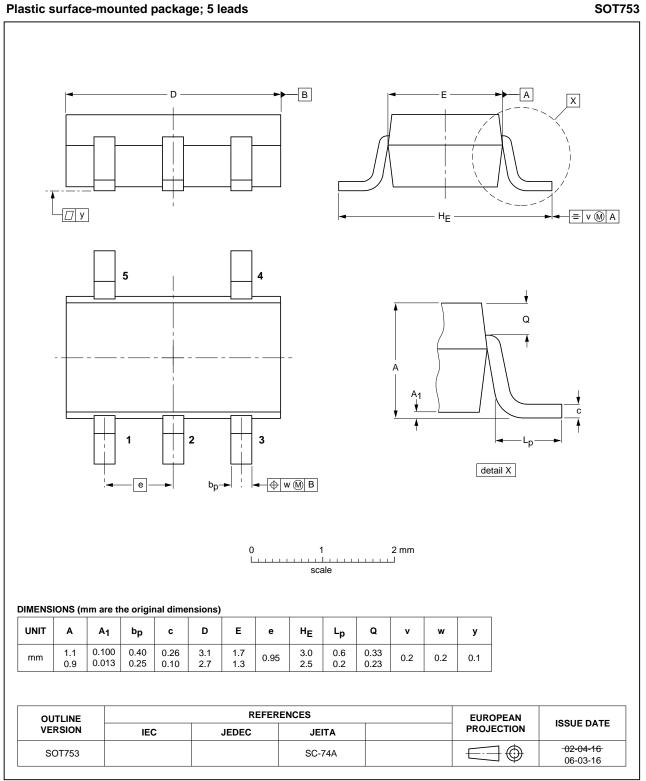


Fig 14. Package outline SOT353-1 (TSSOP5)

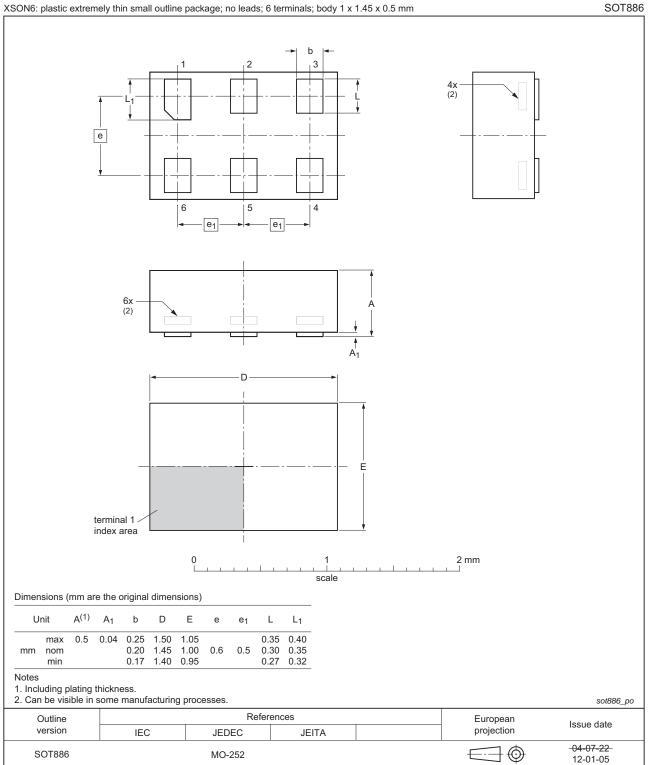
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Plastic surface-mounted package; 5 leads

Fig 15. Package outline SOT753 (SC-74A)

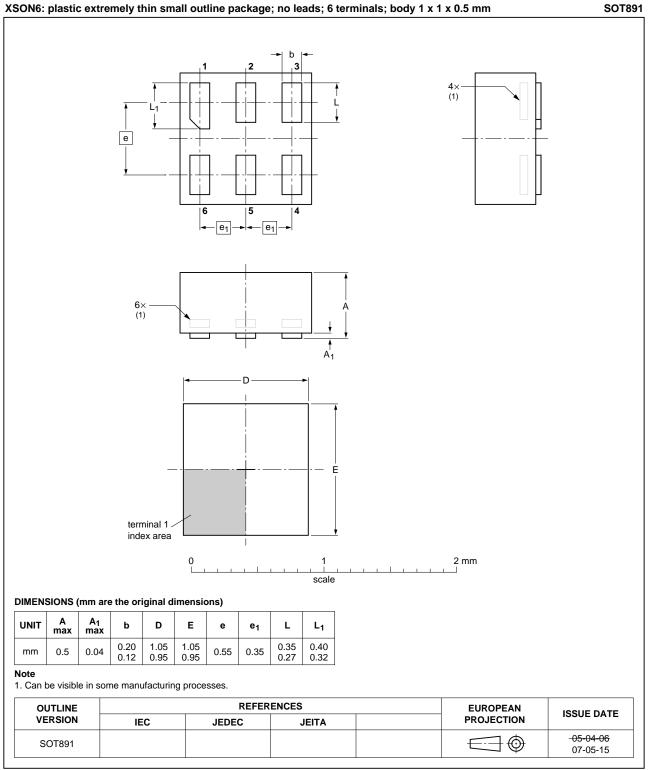
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XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm

Fig 16. Package outline SOT886 (XSON6)

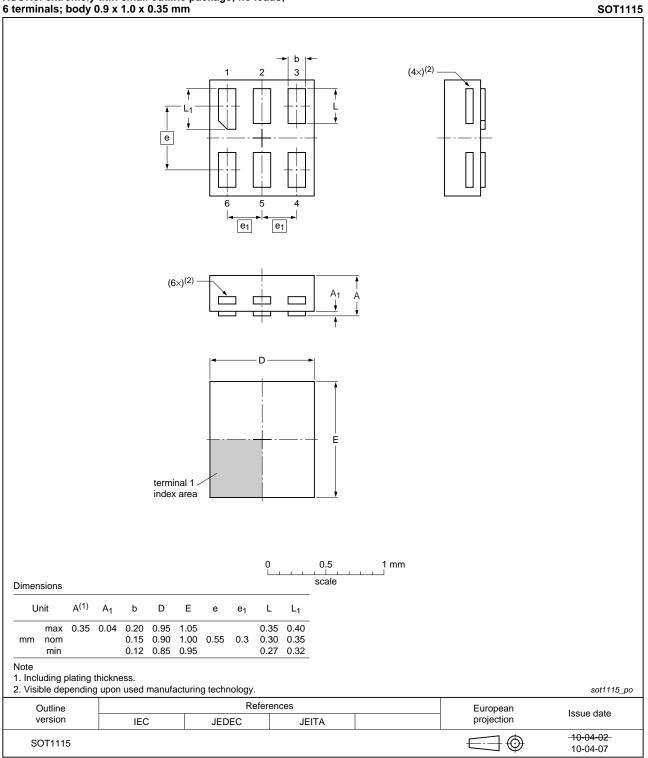
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XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm

Fig 17. Package outline SOT891 (XSON6)

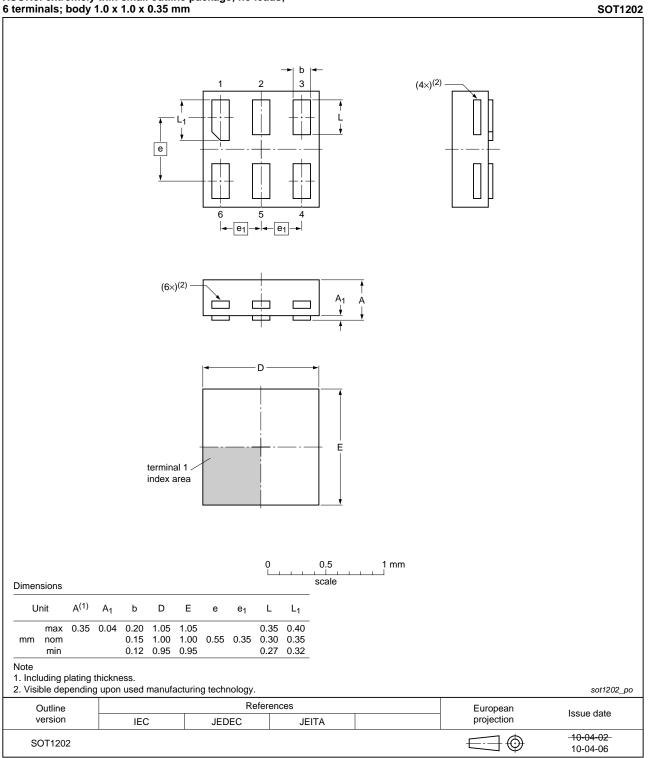
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XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 18. Package outline SOT1115 (XSON6)

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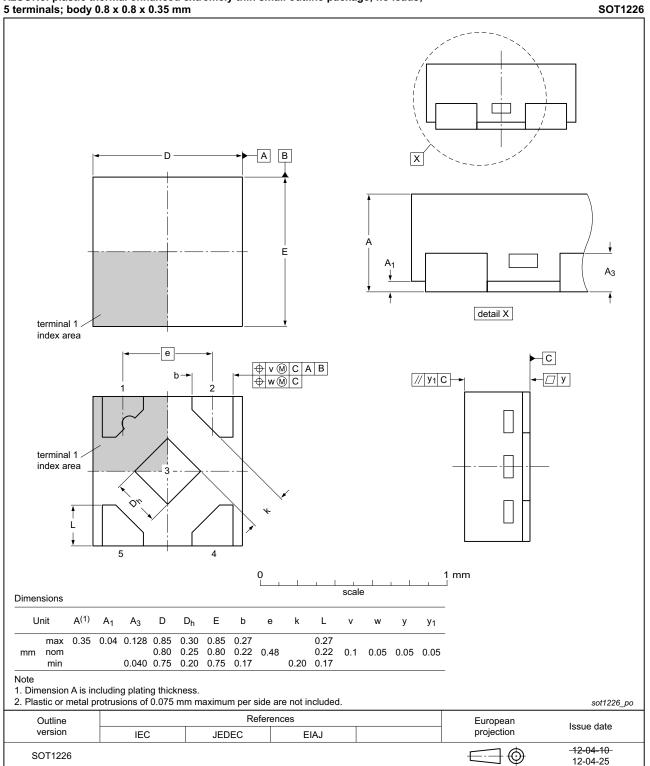
XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

Fig 19. Package outline SOT1202 (XSON6)

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X2SON5: plastic thermal enhanced extremely thin small outline package; no leads;

Fig 20. Package outline SOT1226 (X2SON5)

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15. Abbreviations

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

16. Revision history

Table 12. Revisio	on history			
Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1GU04 v.12	20130409	Product data sheet	-	74LVC1GU04 v.11
Modifications:	 Descriptive title 	e changed to Unbuffered inverter	-	
74LVC1GU04 v.11	20120702	Product data sheet	-	74LVC1GU04 v.10
Modifications:	 Added type nu 	mber 74LVC1GU04GX (SOT122	26)	
	 Package outling 	ne drawing of SOT886 (Figure 16) modified.	
74LVC1GU04 v.10	20111201	Product data sheet	-	74LVC1GU04 v.9
Modifications:	 Legal pages u 	pdated.		
74LVC1GU04 v.9	20101021	Product data sheet	-	74LVC1GU04 v.8
74LVC1GU04 v.8	20070612	Product data sheet	-	74LVC1GU04 v.7
74LVC1GU04 v.7	20061006	Product data sheet	-	74LVC1GU04 v.6
74LVC1GU04 v.6	20040921	Product specification	-	74LVC1GU04 v.5
74LVC1GU04 v.5	20040628	Product specification	-	74LVC1GU04 v.4
74LVC1GU04 v.4	20030630	Product specification	-	74LVC1GU04 v.3
74LVC1GU04 v.3	20030212	Product specification	-	74LVC1GU04 v.2
74LVC1GU04 v.2	20010406	Product specification	-	74LVC1GU04 v.1
74LVC1GU04 v.1	20001212	Product specification	-	-

17. Legal information

17.1 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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