74LVC1G00

Single 2-input NAND gate Rev. 10 — 2 July 2012

Product data sheet

1. **General description**

The 74LVC1G00 provides the single 2-input NAND function.

Input can be driven from either 3.3 V or 5 V devices. These features allow the use of these devices in a mixed 3.3 V and 5 V environment.

Schmitt trigger action at all inputs makes the circuit tolerant for slower input rise and fall time.

This device is fully specified for partial power-down applications using I_{OFF}. The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

Features and benefits 2.

- Wide supply voltage range from 1.65 V to 5.5 V
- High noise immunity
- Complies with JEDEC standard:
 - ◆ JESD8-7 (1.65 V to 1.95 V)
 - ◆ JESD8-5 (2.3 V to 2.7 V)
 - ◆ JESD8-B/JESD36 (2.7 V to 3.6 V)
- \pm 24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Inputs accept voltages up to 5 V
- Multiple package options
- ESD protection:
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- 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				
74LVC1G00GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1				
74LVC1G00GV	–40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753				
74LVC1G00GM	–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				
74LVC1G00GF	–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				
74LVC1G00GN	–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				
74LVC1G00GS	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $1.0 \times 1.0 \times 0.35$ mm	SOT1202				
74LVC1G00GX	–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				

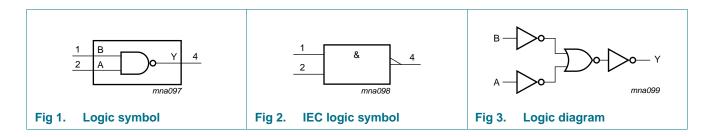
4. Marking

Table 2. Marking codes

Type number	Marking ^[1]
74LVC1G00GW	VA
74LVC1G00GV	V00
74LVC1G00GM	VA
74LVC1G00GF	VA
74LVC1G00GN	VA
74LVC1G00GS	VA
74LVC1G00GX	VA

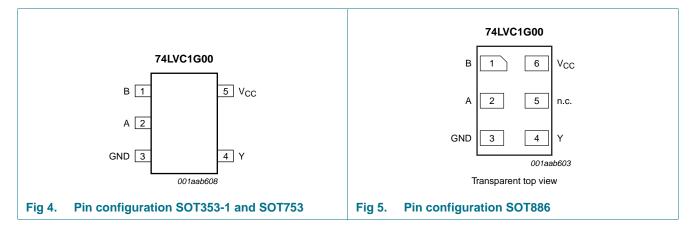
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1 Pinning





6.2 Pin description

Table 3. Pin description

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

Single 2-input NAND gate

7. Functional description

Table 4. Function table[1]

Inputs	Outputs	
Α	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
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).

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			3 , ()		10	,
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Symbol	Parameter	Conditions	Min	Max	Unit
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	V_{CC}	supply voltage		-0.5	+6.5	V
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
$\begin{array}{c} V_O \\ V_O \\ \end{array} \text{output voltage} \\ \begin{array}{c} \text{Active mode} \\ \hline Power-down \ mode \\ \end{array} \begin{array}{c} \text{[1][2]} \ -0.5 \\ \hline Power-down \ mode \\ \end{array} \begin{array}{c} \text{[1][2]} \ -0.5 \\ \hline Power-down \ mode \\ \end{array} \begin{array}{c} \text{[1][2]} \ -0.5 \\ \hline Power-down \ mode \\ \end{array} \begin{array}{c} \text{[1][2]} \ -0.5 \\ \hline Power-down \ mode \\$	VI	input voltage		[<u>1]</u> -0.5	+6.5	V
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V	-	±50	mA
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Vo	output voltage	Active mode	[<u>1][2]</u> -0.5	$V_{CC} + 0.5$	V
I_{CC} supply current - +100 mA I_{GND} ground current -100 - mA P_{tot} total power dissipation $T_{amb} = -40 ^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$ $\boxed{3}$ - 250 mW			Power-down mode	[<u>1][2]</u> -0.5	+6.5	V
I_{GND} ground current -100 - mA P_{tot} total power dissipation $T_{\text{amb}} = -40^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$ $\boxed{3}$ - 250 mW	I _O	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
P_{tot} total power dissipation $T_{amb} = -40 ^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$ [3] - 250 mW	I _{CC}	supply current		-	+100	mA
	I_{GND}	ground current		-100	-	mA
T_{stg} storage temperature –65 +150 °C	P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[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 $V_{CC} = 0 \text{ V}$ (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

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

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	
V_{IH}	HIGH-level	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	0.65V _{CC}	-	V
	input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	$0.7V_{CC}$	-	V
V _{IL}	LOW-level	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	-	0.35V _{CC}	V
	input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	0.7	-	0.7	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	0.8	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	$0.3V_{CC}$	-	$0.3V_{CC}$	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = -100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	V _{CC} - 0.1	-	-	V _{CC} – 0.1	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	0.95	-	V
		$I_O = -8$ mA; $V_{CC} = 2.3$ V	1.9	-	-	1.7	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	1.9	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.3	-	-	2.0	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	-	-	3.4	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	-	0.1	-	0.1	V
		$I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.70	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.3	-	0.45	٧
		I_{O} = 12 mA; V_{CC} = 2.7 V	-	-	0.4	-	0.60	٧
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.80	٧
		$I_O = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.55	-	0.80	٧
l _l	input leakage current	$V_1 = 5.5 \text{ V or GND};$ $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	±0.1	±5	-	±100	μΑ

Table 7. Static characteristics ... continued

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

Symbol	Parameter	arameter Conditions	-40	-40 °C to +85 °C			-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	
I _{OFF}	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	±0.1	±10	-	±200	μΑ
I _{CC}	supply current	$V_{I} = 5.5 \text{ V or GND}; I_{O} = 0 \text{ A};$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	0.1	10	-	200	μΑ
ΔI_{CC}	additional supply current	$V_{CC} = 2.3 \text{ V to } 5.5 \text{ V};$ $V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ per pin	-	5	500	-	5000	μА
C _I	input capacitance	V_{CC} = 3.3 V; V_I = GND to V_{CC}	-	5	-	-	-	pF

^[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 load circuit see Figure 9.

Symbol	Parameter	Conditions		-40	°C to +85	°C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t_{pd}	propagation delay	A, B to Y; see Figure 8	[2]						
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.0	3.3	8.0	1.0	10.5	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.5	2.2	5.5	0.5	7.0	ns
		V _{CC} = 2.7 V		0.5	2.6	5.8	0.5	7.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		0.5	2.2	4.7	0.5	6.0	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		0.5	1.8	4.0	0.5	5.5	ns
C_{PD}	power dissipation capacitance	$V_I = GND \text{ to } V_{CC};$ $V_{CC} = 3.3 \text{ V}$	[3]	-	14	-	-	-	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.

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

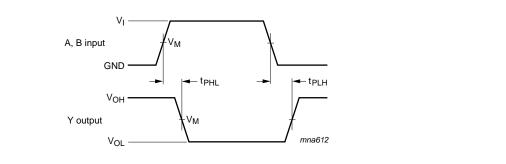
N = number of inputs switching;

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

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

^[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

12. Waveforms



Measurement points are given in Table 9.

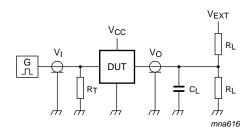
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output.

Fig 8. The input (A and B) to output (Y) propagation delay times

Table 9. Measurement points

Supply voltage	Input	Output
V _{CC}	V _M	V _M
1.65 V to 1.95 V	0.5V _{CC}	0.5V _{CC}
2.3 V to 2.7 V	0.5V _{CC}	0.5V _{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	0.5V _{CC}	0.5V _{CC}

Single 2-input NAND gate



Test data is given in Table 10.

Definitions for test circuit:

R_L = Load resistance.

C_L = Load capacitance including jig and probe capacitance.

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

 V_{EXT} = External voltage for measuring switching times.

Fig 9. Test circuit for measuring switching times

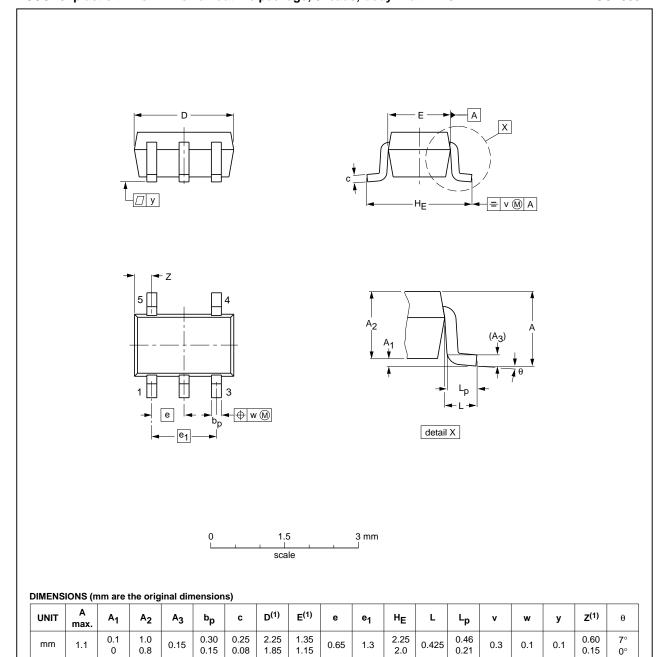
Table 10. Test data

Supply voltage	Input		Load		V _{EXT}
V _{CC}	V _I	$t_r = t_f$	CL	R _L	t _{PLH} , t _{PHL}
1.65 V to 1.95 V	V_{CC}	≤ 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V_{CC}	≤ 2.0 ns	30 pF	500 Ω	open
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open
3.0 V to 3.6 V	2.7 V	≤ 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. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1



Note

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

OUTLINE	TLINE REFERENCES			EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC JEITA		PROJECTION	ISSUE DATE	
SOT353-1		MO-203	SC-88A		-00-09-01- 03-02-19	

Fig 10. Package outline SOT353-1 (TSSOP5)

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Plastic surface-mounted package; 5 leads

SOT753

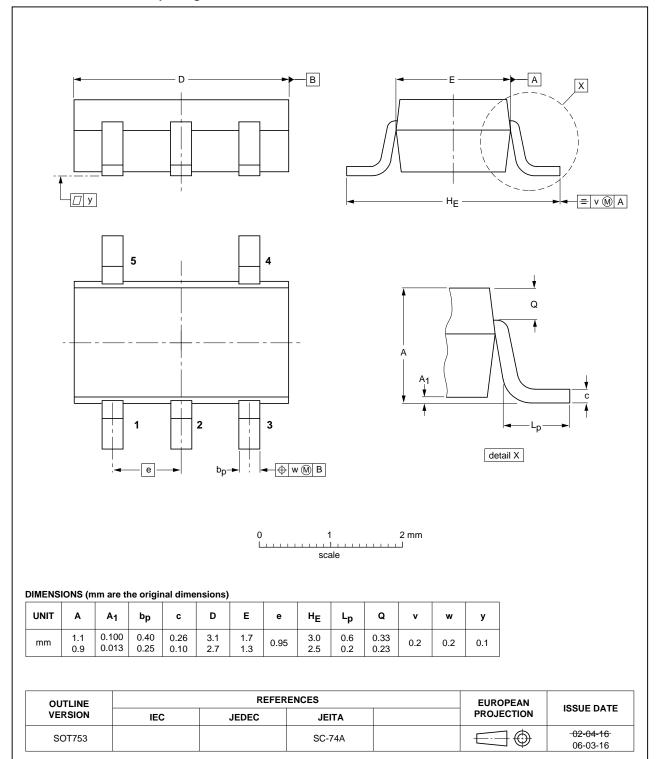


Fig 11. Package outline SOT753 (SC-74A)

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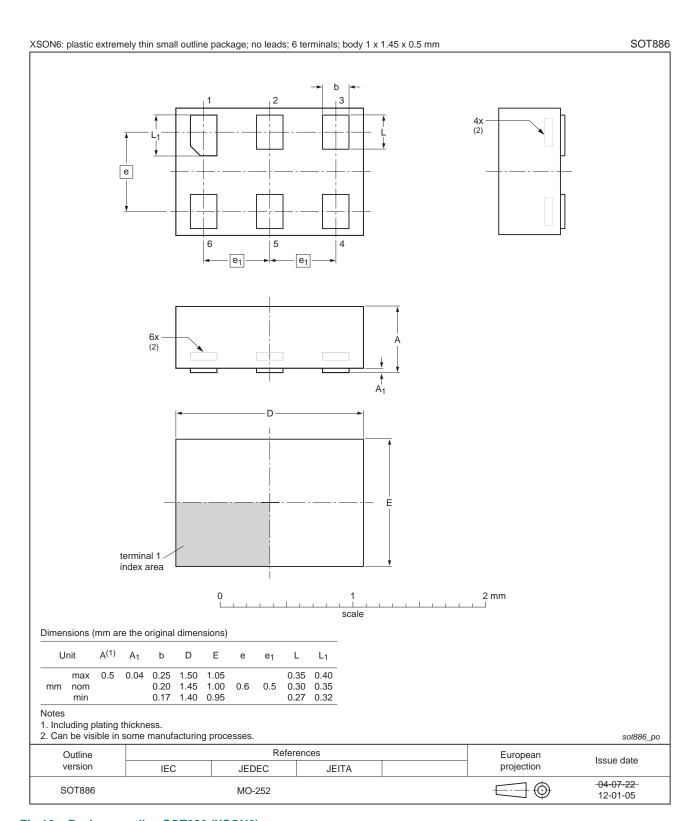


Fig 12. Package outline SOT886 (XSON6)

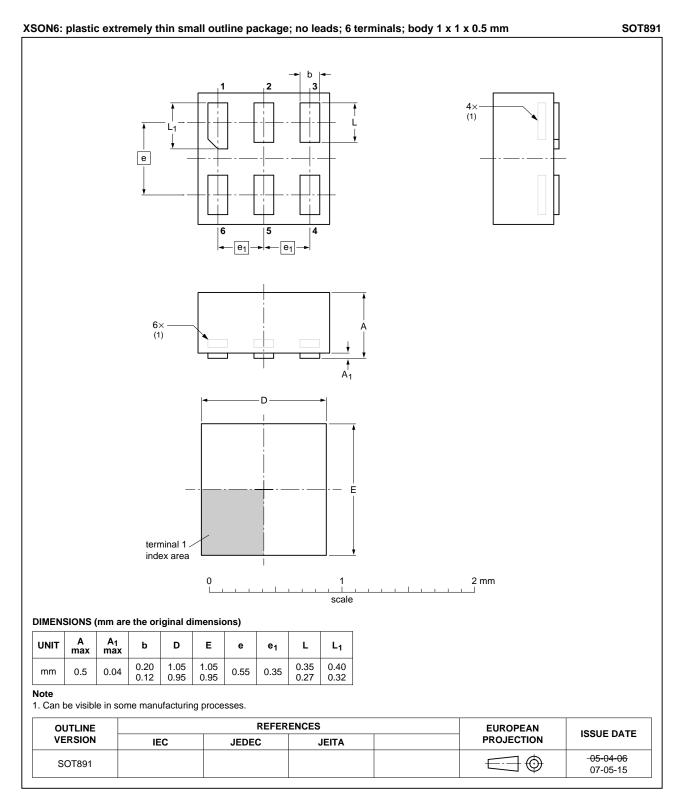


Fig 13. Package outline SOT891 (XSON6)

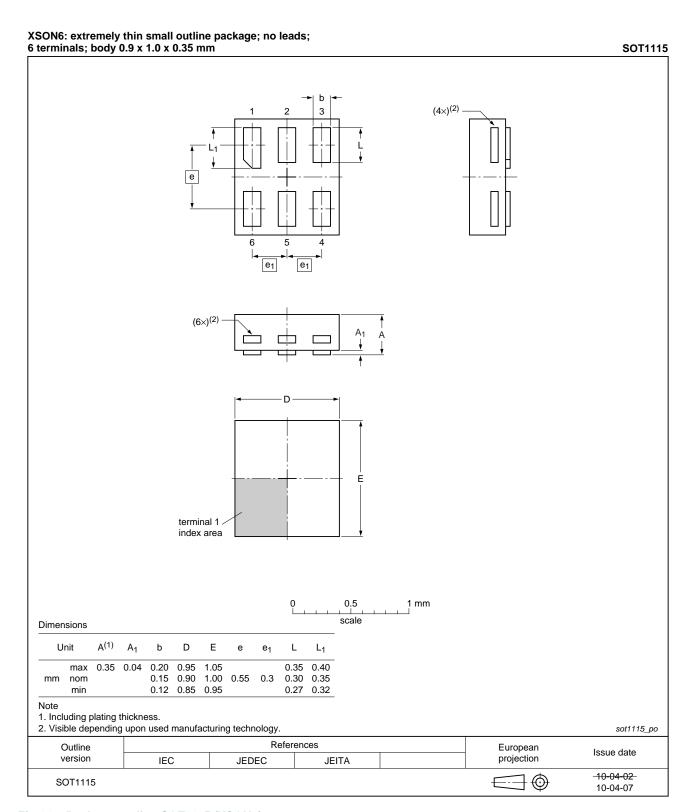


Fig 14. Package outline SOT1115 (XSON6)

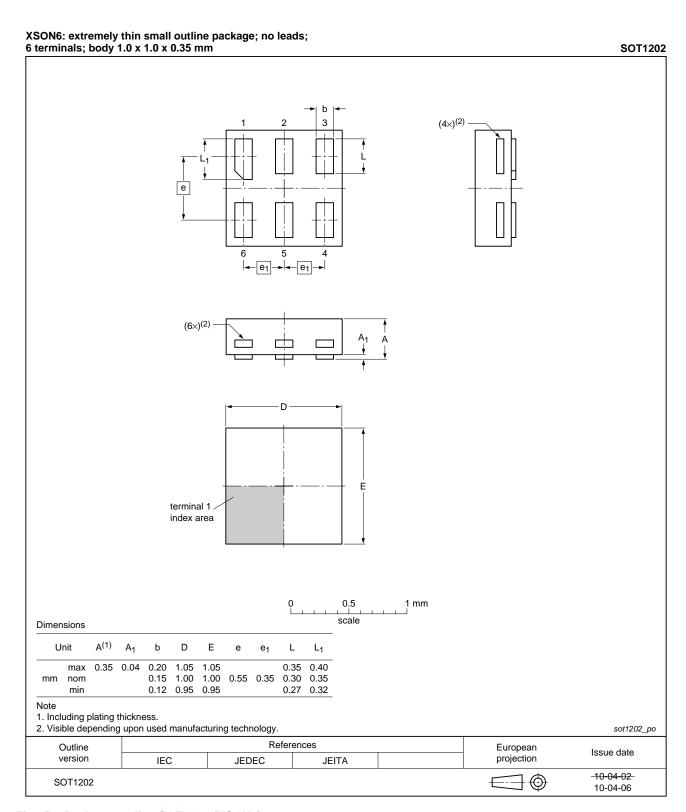


Fig 15. Package outline SOT1202 (XSON6)

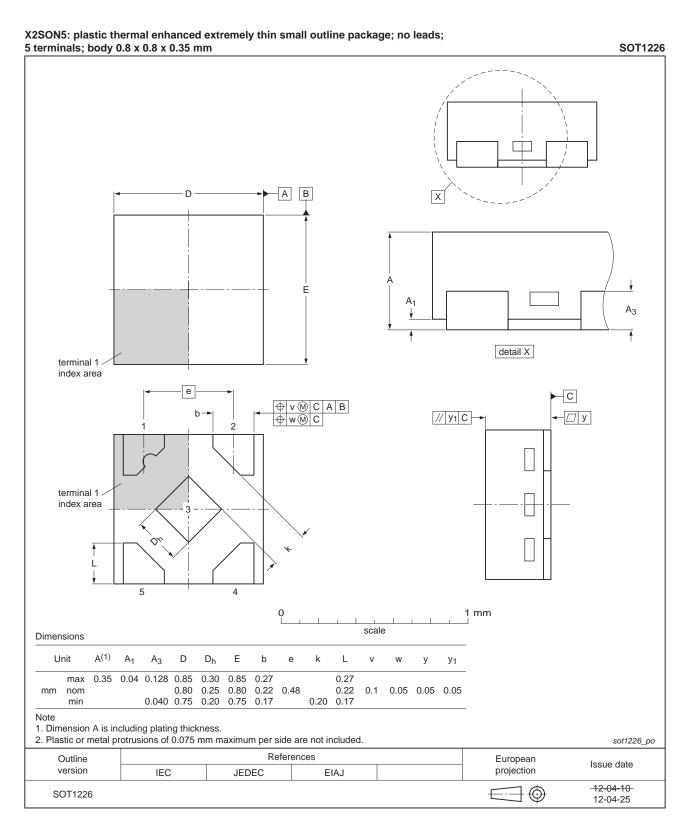


Fig 16. Package outline SOT1226 (X2SON5)

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
TTL	Transistor-Transistor Logic

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC1G00 v.10	20120702	Product data sheet	-	74LVC1G00 v.9	
Modifications:	 Added type 	number 74LVC1G00GX (S	OT1226)		
	 Package ou 	utline drawing of SOT886 (F	figure 12) modified.		
74LVC1G00 v.9	20111207	Product data sheet	-	74LVC1G00 v.8	
Modifications:	cations: • Legal pages updated.				
74LVC1G00 v.8	20101020	Product data sheet	-	74LVC1G00 v.7	
74LVC1G00 v.7	20070717	Product data sheet	-	74LVC1G00 v.6	
74LVC1G00 v.6	20060915	Product data sheet	-	74LVC1G00 v.5	
74LVC1G00 v.5	20040907	Product specification	-	74LVC1G00 v.4	
74LVC1G00 v.4	20021115	Product specification	-	74LVC1G00 v.3	
74LVC1G00 v.3	20020515	Product specification	-	74LVC1G00 v.2	
74LVC1G00 v.2	20010405	Product specification	-	74LVC1G00 v.1	
74LVC1G00 v.1	20001108	Product specification	-	-	
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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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74LVC1G00

NXP Semiconductors 74LVC1G00

Single 2-input NAND gate

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