Single 2-input OR gate
Rev. 10 — 4 September 2012

Product data sheet

1. **General description**

The 74LVC1G32 provides one 2-input OR function.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V applications.

Schmitt trigger action at all inputs makes the circuit tolerant of 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)
- ESD protection:
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 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
- 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	
74LVC1G32GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1	
74LVC1G32GV	−40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753	
74LVC1G32GM	–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	
74LVC1G32GF	–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	
74LVC1G32GN	–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	
74LVC1G32GS	–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	
74LVC1G32GX	−40 °C to +125 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8\times0.8\times0.35$ mm	SOT1226	

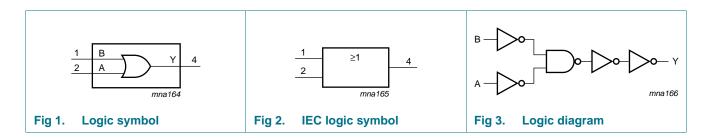
4. Marking

Table 2. Marking

Type number	Marking code ^[1]	
74LVC1G32GW	VG	
74LVC1G32GV	V32	
74LVC1G32GM	VG	
74LVC1G32GF	VG	
74LVC1G32GN	VG	
74LVC1G32GS	VG	
74LVC1G32GX	VG	

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

5. Functional diagram

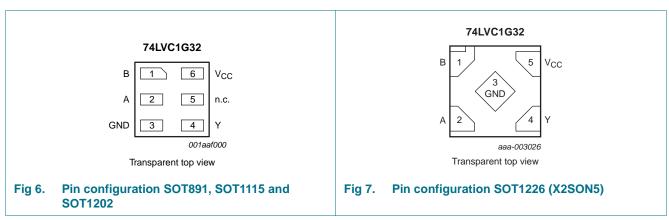


74LVC1G32

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			
A	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			

7. Functional description

Table 4. Function table[1]

Input C		Output
Α	В	Υ
L	L	L
L	Н	Н
Н	L	Н
Н	Н	Н

^[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	
V_{I}	input voltage		<u>[1]</u> –0.5	+6.5	V	
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA	
V_{O}	output voltage	Active mode	[1][2] -0.5	$V_{CC} + 0.5$	V	
		Power-down mode	[1][2] -0.5	+6.5	V	
I _O	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA	
I _{CC}	supply current		-	100	mA	
I_{GND}	ground current		-100	-	mA	
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[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
VI	input voltage		0	-	5.5	V
Vo	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
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	-	-	20	ns/V
		V _{CC} = 2.7 V to 5.5 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 +	85 °C	-40 °C t	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_C$	-	-	$0.65 \times V_{C}$	-	V
	input voltage		С			С		
		V_{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V	$0.7 \times V_{CC}$	-	-	$0.7 \times V_{CC}$	-	V
V_{IL}	LOW-level	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	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	-	-	$0.3 \times V_{CC}$	-	$0.3 \times V_{CC}$	V	
V _{OH} HIGH-level output voltage	$V_I = V_{IH}$ 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
		$I_0 = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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	$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	-	0.10	-	0.10	V
		$I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.70	V
		$I_0 = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.30	-	0.45	V
		$I_{O} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.40	-	0.60	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.80	V
		$I_O = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.55	-	0.80	V

NXP Semiconductors 74LVC1G32

Single 2-input OR gate

 Table 7.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	-40	°C to +85	5 ℃	–40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
II	input leakage current	$V_I = 5.5 \text{ V or GND};$ $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	±0.1	±5	-	±100	μΑ
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	μА
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	per pin; $V_{CC} = 2.3 \text{ V to } 5.5 \text{ V};$ $V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}$	-	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 +8	5 °C	-40 °C to	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
t_{pd}	propagation delay	A, B to Y; see Figure 8	,	•	,			
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$	1.0	3.1	8.0	1.0	10.5	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	2.1	5.5	0.5	7.0	ns
	V _{CC} = 2.7 V	0.5	2.5	5.5	0.5	7.0	ns	
	V _{CC} = 3.0 V to 3.6 V	0.5	2.1	4.5	0.5	6.0	ns	
		V _{CC} = 4.5 V to 5.5 V	0.5	1.7	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]	-	16	-	-	-	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.

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

 V_{CC} = supply voltage in V,

 f_i = input frequency in MHz,

N = number of inputs switching,

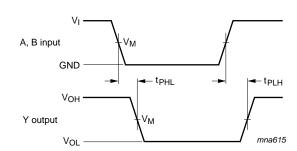
 C_L = output load capacitance in pF,

 f_o = output frequency in MHz.

^[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. AC waveforms



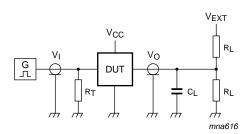
Measurement points are given in Table 9.

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

Fig 8. The input A, B to output Y propagation delays

Table 9. Measurement points

Supply voltage	Input	Output			
V _{CC}	V _M	V _M			
1.65 V to 1.95 V	$0.5 \times V_{CC}$	0.5 × V _{CC}			
2.3 V to 2.7 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$			
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	$0.5 \times V_{CC}$	0.5 × V _{CC}			



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_o of the pulse generator.

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

Fig 9. Test circuit for measuring switching times

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Single 2-input OR gate

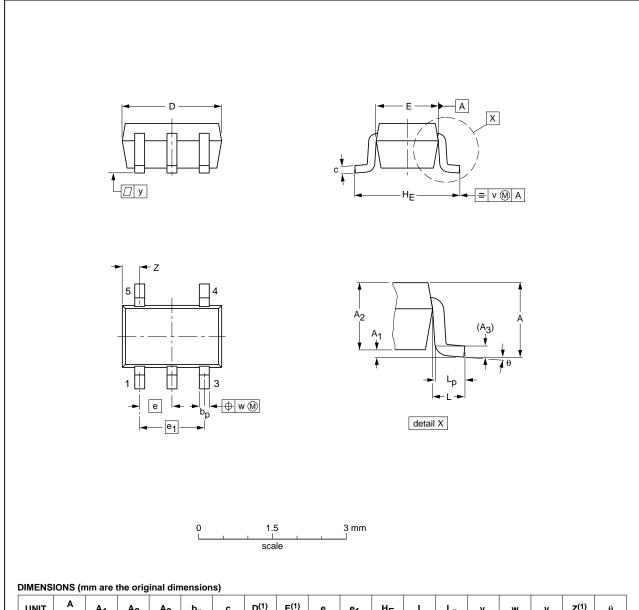
Table 10. Test data

Supply voltage	Input		Load	Load				
V _{CC}	Vı	$t_r = t_f$	CL	R _L	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}	≤ 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	$500~\Omega$	open			

13. Package outline

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

SOT353-1



UNIT	A max.	A ₁	A ₂	Α3	bp	C	D ⁽¹⁾	E ⁽¹⁾	е	e ₁	HE	L	Lp	٧	w	у	Z ⁽¹⁾	θ	
mm	1.1	0.1 0	1.0 0.8	0.15	0.30 0.15	0.25 0.08	2.25 1.85	1.35 1.15	0.65	1.3	2.25 2.0	0.425	0.46 0.21	0.3	0.1	0.1	0.60 0.15	7° 0°	

Note

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

OUTLINE VERSION	REFERENCES				EUROPEAN	ISSUE DATE
	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)

74LVC1G32

Plastic surface-mounted package; 5 leads

SOT753

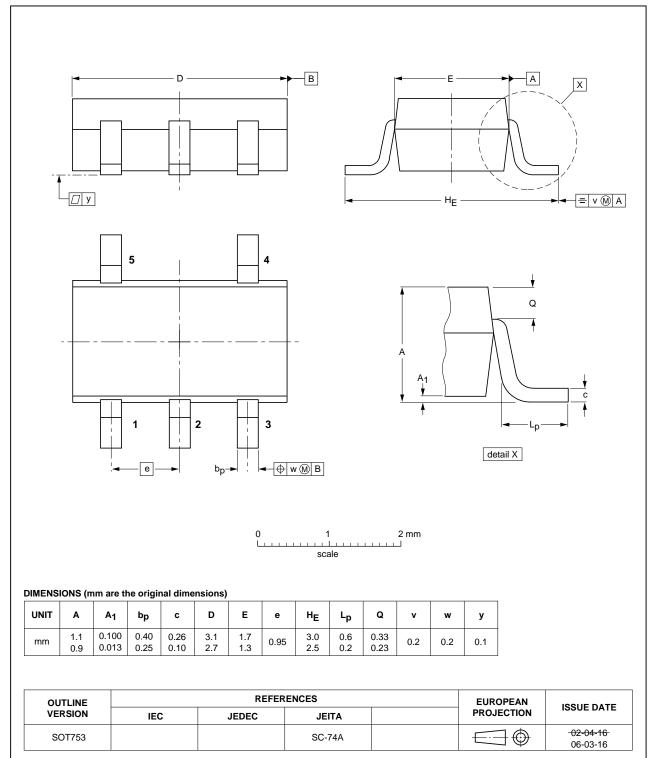


Fig 11. Package outline SOT753 (SC-74A)

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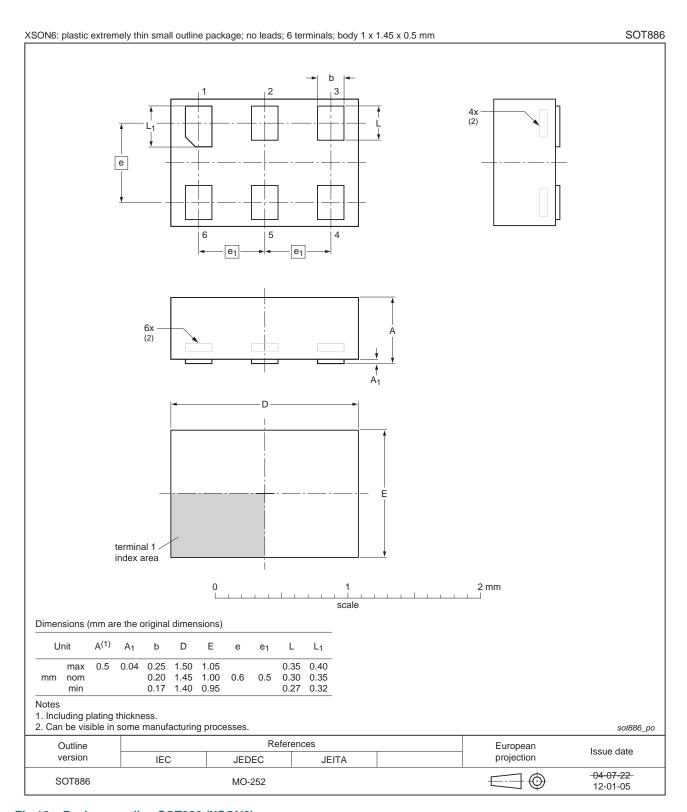


Fig 12. Package outline SOT886 (XSON6)

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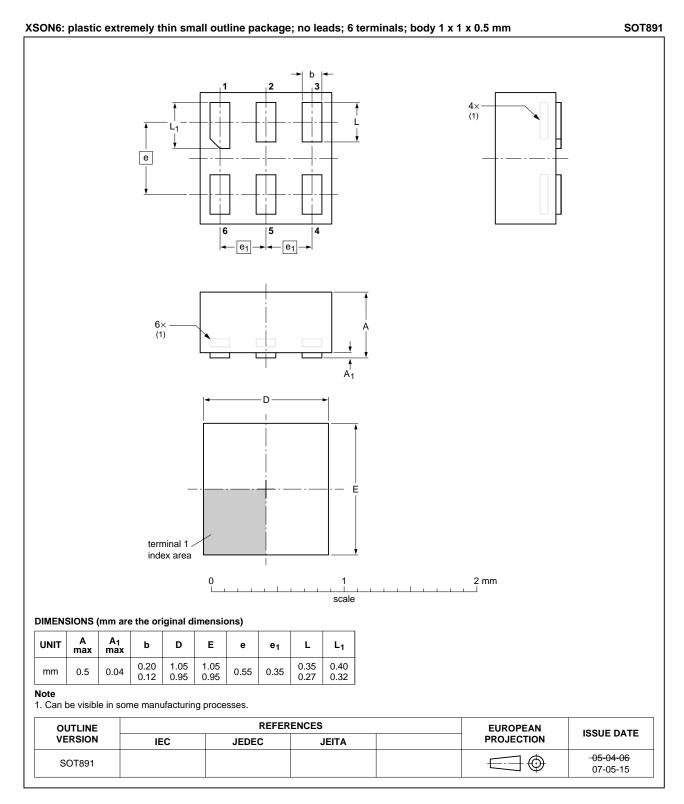


Fig 13. Package outline SOT891 (XSON6)

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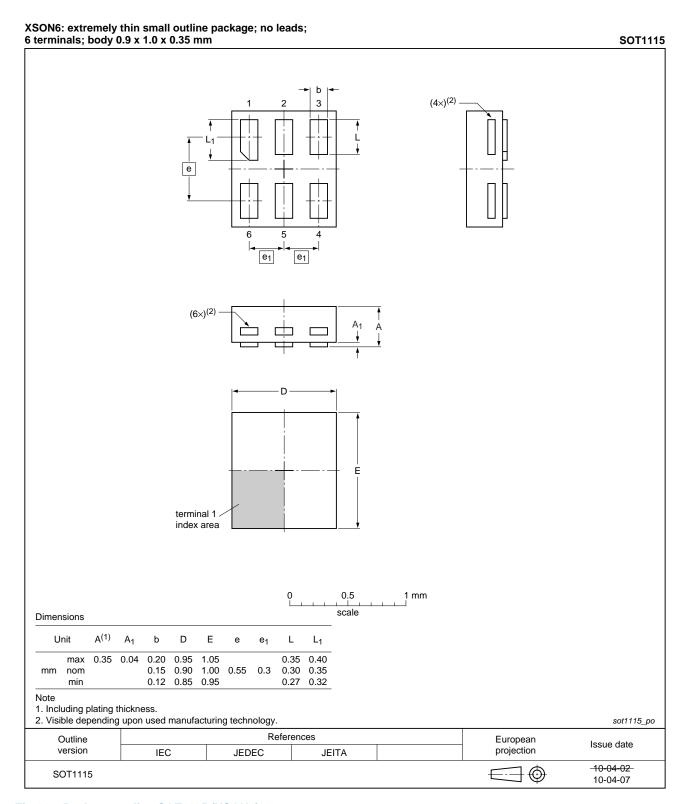


Fig 14. Package outline SOT1115 (XSON6)

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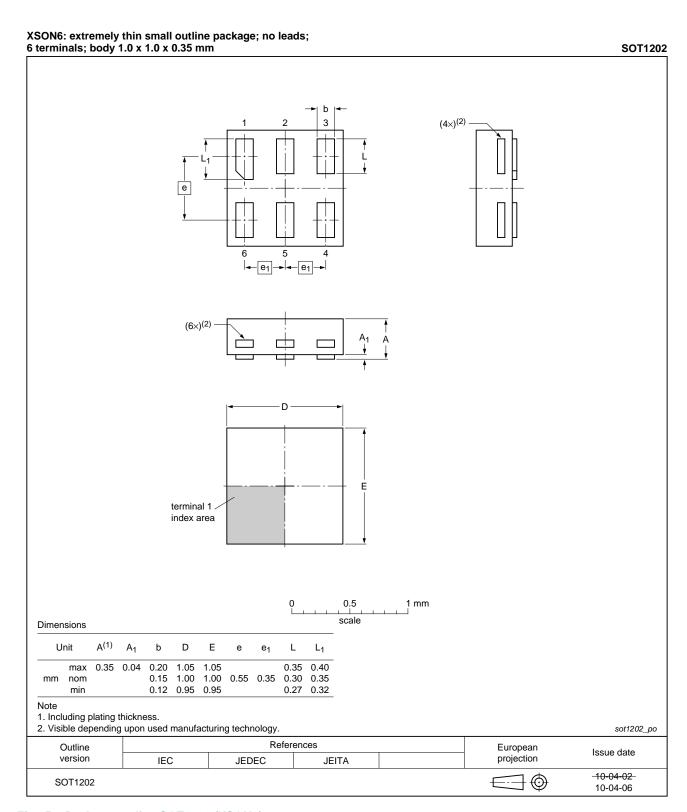


Fig 15. Package outline SOT1202 (XSON6)

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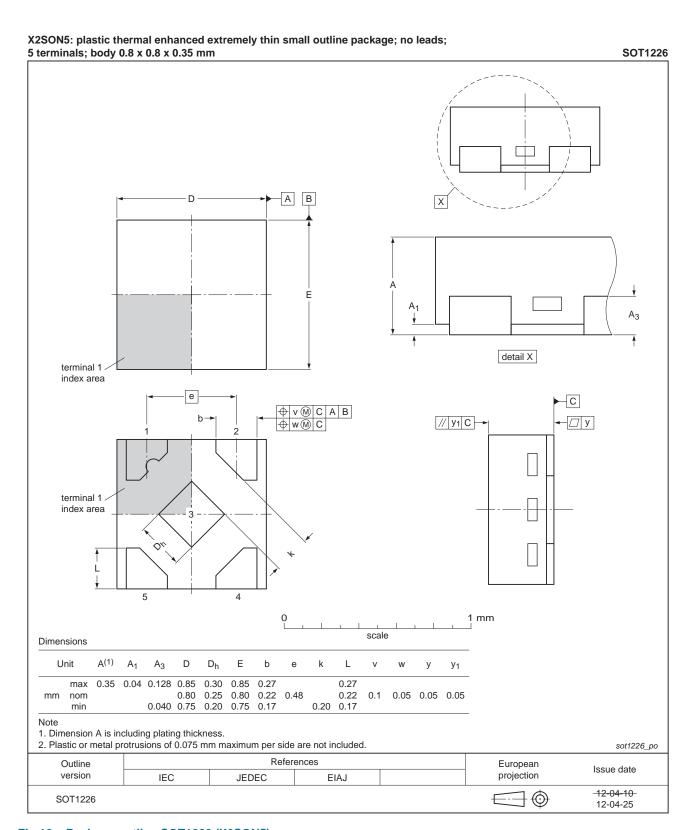


Fig 16. Package outline SOT1226 (X2SON5)

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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
74LVC1G32 v.10	20120904	Product data sheet	-	74LVC1G32 v.9
Modifications:	 Package ou 	utline drawing of SOT1226	(Figure 16) modified.	
74LVC1G32 v.9	20120412	Product data sheet	-	74LVC1G32 v.8
Modifications:	 Added type 	number 74LVC1G32GX (S	OT1226)	
	 Package ou 	ıtline drawing of SOT886 (F	Figure 12) modified.	
74LVC1G32 v.8	20111206	Product data sheet	-	74LVC1G32 v.7
Modifications:	 Legal pages 	s updated.		
74LVC1G32 v.7	20101020	Product data sheet	-	74LVC1G32 v.6
74LVC1G32 v.6	20070802	Product data sheet	-	74LVC1G32 v.5
74LVC1G32 v.5	20060619	Product data sheet	-	74LVC1G32 v.4
74LVC1G32 v.4	20040915	Product specification	-	74LVC1G32 v.3
74LVC1G32 v.3	20021115	Product specification	-	74LVC1G32 v.2
74LVC1G32 v.2	20020521	Product specification	-	74LVC1G32 v.1
74LVC1G32 v.1	20001121	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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74LVC1G32

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Single 2-input OR gate

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Single 2-input OR gate

18. Contents

1	General description	. 1
2	Features and benefits	. 1
3	Ordering information	. 2
4	Marking	. 2
5	Functional diagram	. 2
6	Pinning information	. 3
6.1	Pinning	. 3
6.2	Pin description	. 3
7	Functional description	. 4
8	Limiting values	. 4
9	Recommended operating conditions	. 5
10	Static characteristics	. 5
11	Dynamic characteristics	. 6
12	AC waveforms	. 7
13	Package outline	. 9
14	Abbreviations	16
15	Revision history	16
16	Legal information	17
16.1	Data sheet status	17
16.2	Definitions	17
16.3	Disclaimers	17
16.4	Trademarks	18
17	Contact information	18
12	Contents	10

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