

## 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.

## 2. Features and benefits

- 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<sub>CC</sub> = 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

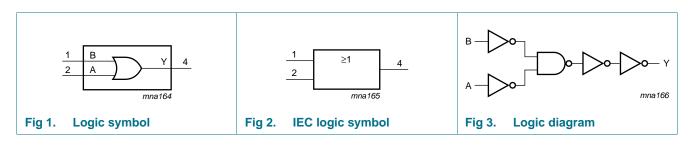
Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G32GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74LVC1G32GV	–40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753
74LVC1G32GM	–40 °C to +125 °C	XSON6	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 $0.8 \times 0.8 \times 0.35$ mm	SOT1226

## 4. Marking

Type numberMarking code <sup>[1]</sup> 74LVC1G32GWVG74LVC1G32GVV3274LVC1G32GMVG74LVC1G32GFVG74LVC1G32GNVG74LVC1G32GSVG74LVC1G32GSVG74LVC1G32GSVG74LVC1G32GSVG74LVC1G32GXVG	Table 2. Marking		
74LVC1G32GV       V32         74LVC1G32GM       VG         74LVC1G32GF       VG         74LVC1G32GN       VG         74LVC1G32GS       VG	Type number	Marking code <sup>[1]</sup>	
74LVC1G32GM     VG       74LVC1G32GF     VG       74LVC1G32GN     VG       74LVC1G32GS     VG	74LVC1G32GW	VG	
74LVC1G32GF     VG       74LVC1G32GN     VG       74LVC1G32GS     VG	74LVC1G32GV	V32	
74LVC1G32GN         VG           74LVC1G32GS         VG	74LVC1G32GM	VG	
74LVC1G32GS VG	74LVC1G32GF	VG	
	74LVC1G32GN	VG	
74LVC1G32GX 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

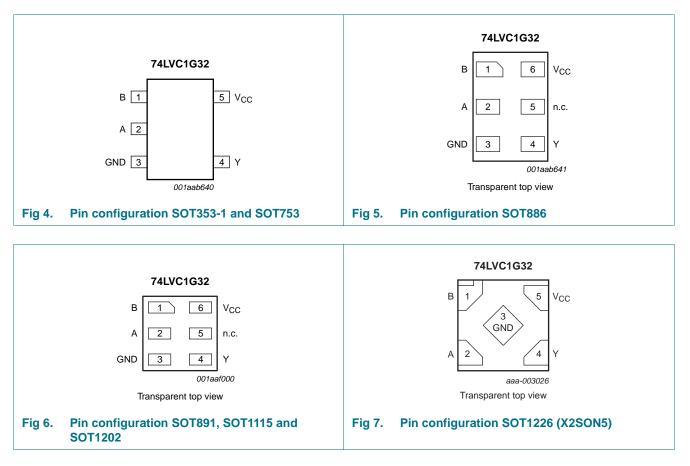


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### Single 2-input OR gate

## 6. Pinning information

### 6.1 Pinning



## 6.2 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)
Y	4	4	data output
n.c.	-	5	not connected
V <sub>CC</sub>	5	6	supply voltage

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## 7. Functional description

Table 4.	Function table <sup>[1]</sup>	
Input		Output
Α	В	Y
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 <sub>CC</sub>	supply voltage		-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_{O}$ > $V_{CC}$ or $V_{O}$ < 0 V	-	±50	mA
Vo	output voltage	Active mode	[1][2] -0.5	$V_{CC} + 0.5$	V
		Power-down mode	[1][2] -0.5	+6.5	V
lo	output current	$V_{O} = 0 V$ to $V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	[3] _	250	mW
T <sub>stg</sub>	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<sub>tot</sub> derates linearly with 4.0 mW/K. For XSON6 and X2SON5 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					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	Active mode	0	-	V <sub>CC</sub>	V
		$V_{CC} = 0 V$ ; Power-down mode	0	-	5.5	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
$\Delta t / \Delta V$	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	Unit	
			Min	Typ[1]	Max	Min	Max	
VIH	HIGH-level	V <sub>CC</sub> = 1.65 V to 1.95 V	$0.65  imes V_{C}$	-	-	$0.65  imes V_{C}$	-	V
	input voltage		С			С		
		$V_{CC}$ = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		$V_{CC}$ = 2.7 V to 3.6 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 <sub>IL</sub>	L LOW-level	$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
	input voltage	$V_{CC}$ = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		$V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	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 <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$						
	output voltage	$I_{O} = -100 \ \mu A;$ $V_{CC} = 1.65 \ V \ to \ 5.5 \ V$	V <sub>CC</sub> - 0.1	-	-	$V_{CC}-0.1$	-	V
		$I_0 = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	0.95	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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
		$I_0 = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	-	-	3.4	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$						
	output voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.70	V
		$I_0 = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.30	-	0.45	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.40	-	0.60	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.80	V
		$I_0 = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	_	-	0.55	-	0.80	V

Single 2-input OR gate

Symbol	Parameter	Conditions	-40	–40 °C to +85 °C			–40 °C to +125 °C		
			Min	Typ[1]	Max	Min	Max		
l <sub>l</sub>	input leakage current	V <sub>1</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	±0.1	±5	-	±100	μA	
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0$ V; V <sub>I</sub> or V <sub>O</sub> = 5.5 V	-	±0.1	±10	-	±200	μΑ	
I <sub>CC</sub>	supply current	$V_{I} = 5.5 V \text{ or GND}; I_{O} = 0 \text{ A};$ $V_{CC} = 1.65 V \text{ to } 5.5 V$	-	0.1	10	-	200	μΑ	
$\Delta I_{CC}$	additional supply current	per pin; V <sub>CC</sub> = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> – 0.6 V; I <sub>O</sub> = 0 A	-	5	500	-	5000	μΑ	
CI	input capacitance	$V_{CC}$ = 3.3 V; $V_{I}$ = GND to $V_{CC}$	-	5	-	-	-	pF	

#### Table 7. Static characteristics ...continued

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

[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 <u>Figure 9</u>.

Symbol	Parameter	Conditions	–40 °C to +85 °C			–40 °C to +125 °C		Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
t <sub>pd</sub>	propagation delay	A, B to Y; see Figure 8 [2]						
		$V_{CC}$ = 1.65 V to 1.95 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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	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 <sub>PD</sub>	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.

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

[3]  $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu$ W).

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

V<sub>CC</sub> = supply voltage in V,

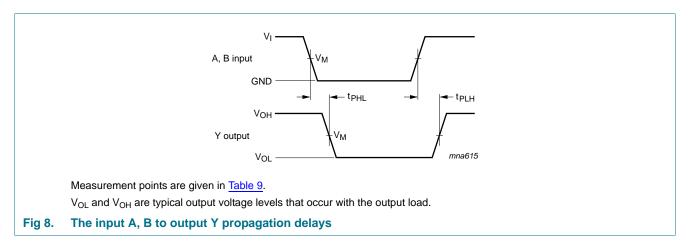
 $f_i$  = input frequency in MHz,

N = number of inputs switching,

 $C_L$  = output load capacitance in pF,

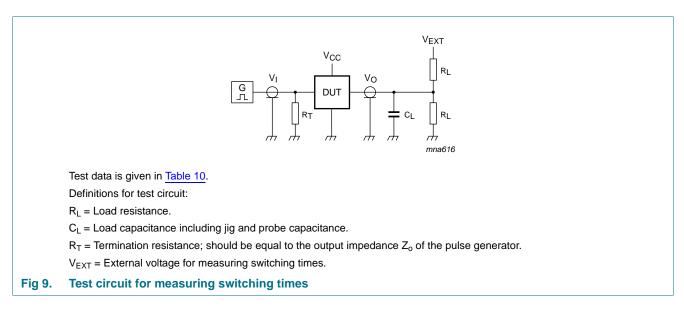
 $f_o$  = output frequency in MHz.

## **12. AC waveforms**



#### Table 9.Measurement points

Supply voltage	Input	Output
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub>
1.65 V to 1.95 V	$0.5 \times V_{CC}$	$0.5  imes V_{CC}$
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	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$



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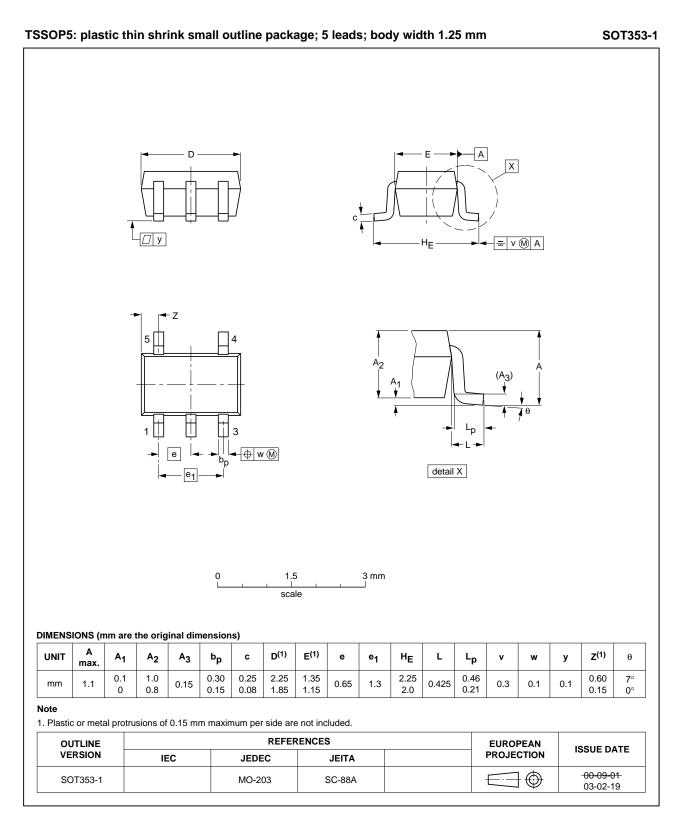
# 74LVC1G32

Single 2-input OR gate

Supply voltage	Input		Load		V <sub>EXT</sub>
V <sub>cc</sub>	VI	$t_r = t_f$	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>
1.65 V to 1.95 V	V <sub>CC</sub>	$\leq$ 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V <sub>CC</sub>	$\leq$ 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 <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open

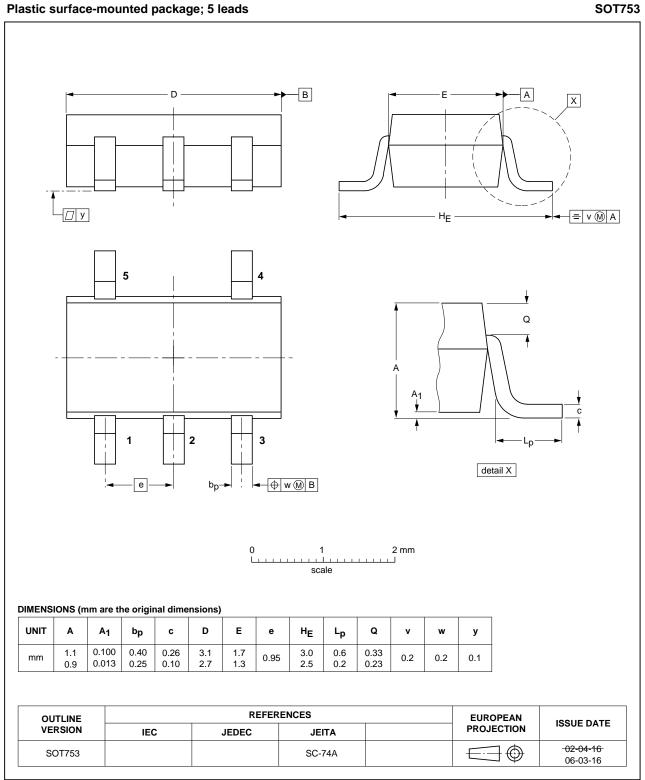
Single 2-input OR gate

## 13. Package outline



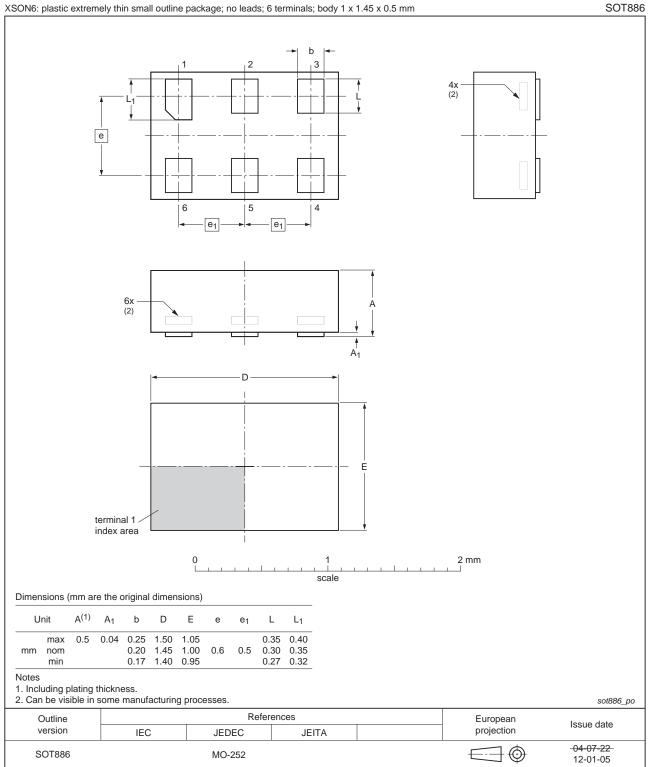
#### Fig 10. Package outline SOT353-1 (TSSOP5)

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#### Plastic surface-mounted package; 5 leads

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

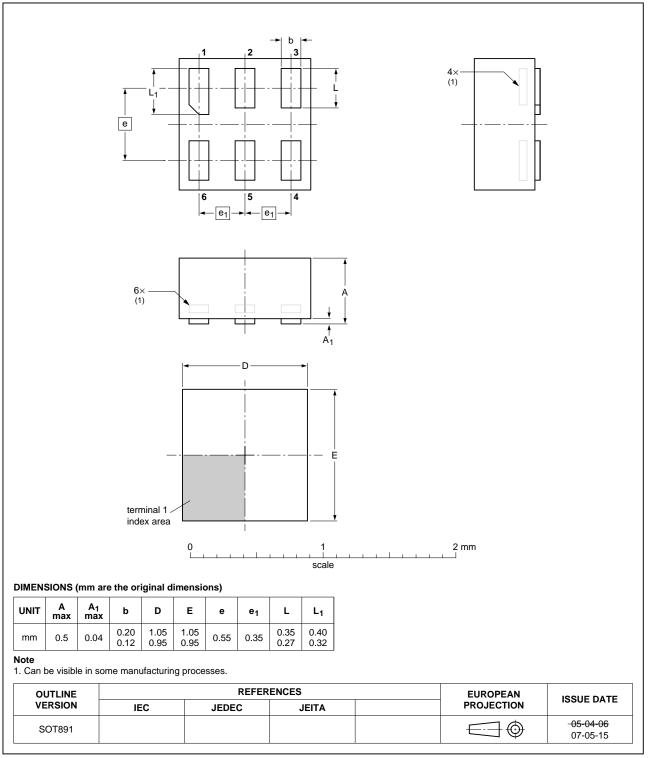


# XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm

Fig 12. Package outline SOT886 (XSON6)

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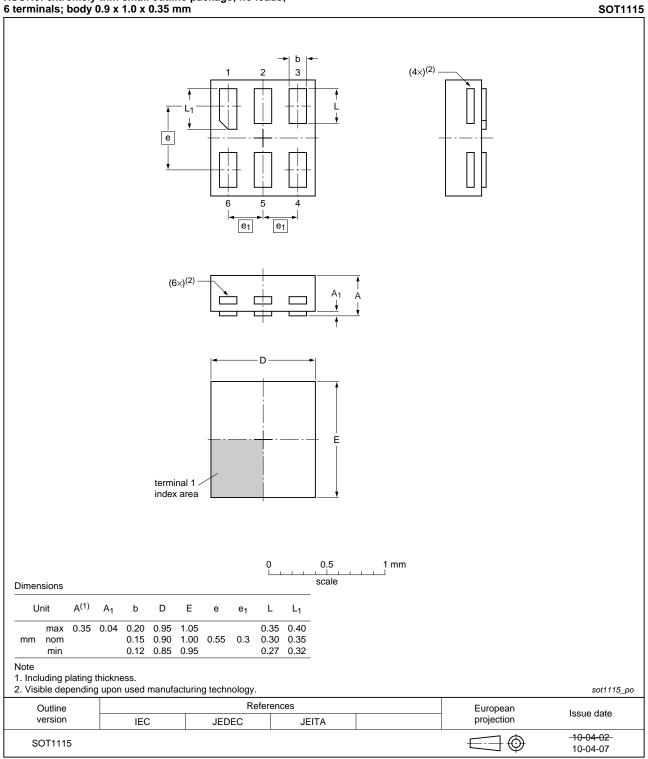
SOT891



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

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

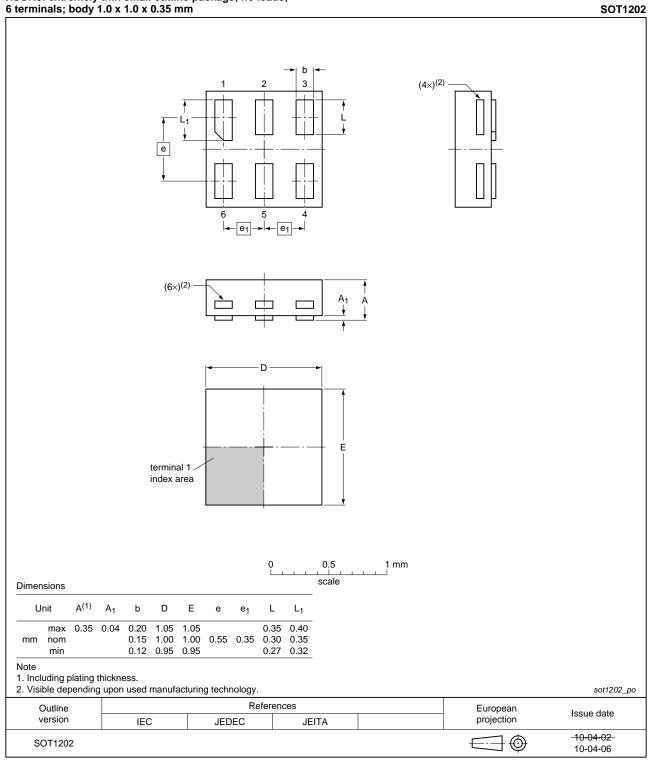
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# XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 14. Package outline SOT1115 (XSON6)

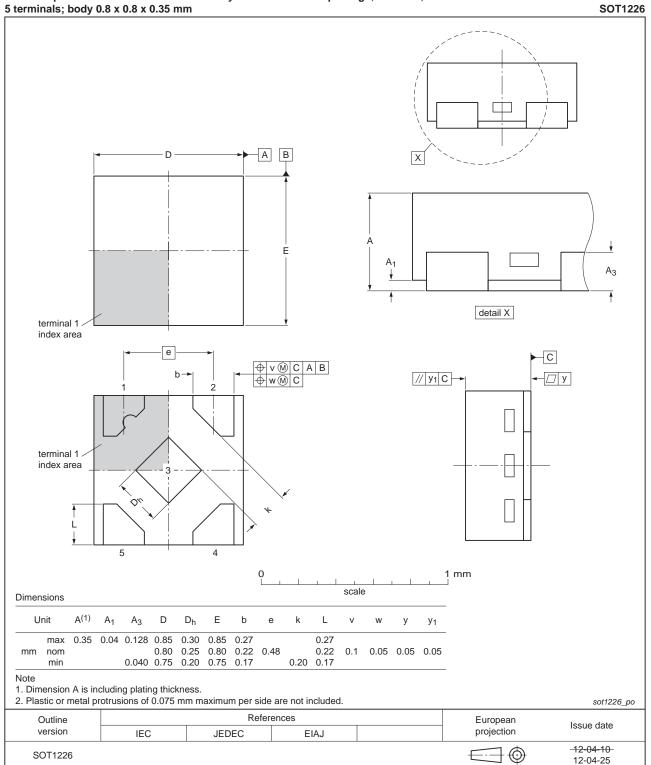
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XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

Fig 15. Package outline SOT1202 (XSON6)

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X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.35 mm

#### 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
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
74LVC1G32 v.10	20120904	Product data sheet	-	74LVC1G32 v.9
Modifications:	<ul> <li>Package ou</li> </ul>	Itline drawing of SOT1226 (	igure 16) modified.	
74LVC1G32 v.9	20120412	Product data sheet	-	74LVC1G32 v.8
Modifications:	<ul> <li>Added type</li> </ul>	number 74LVC1G32GX (SC	DT1226)	
	<ul> <li>Package or</li> </ul>	Itline drawing of SOT886 (Fi	gure 12) modified.	
74LVC1G32 v.8	20111206	Product data sheet	-	74LVC1G32 v.7
Modifications:	<ul> <li>Legal pages updated.</li> </ul>			
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 <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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#### Single 2-input OR gate

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