### 1. General description

The 74LVC1G02 provides the single 2-input NOR 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.

### 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)
- $\pm 24$  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
- 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

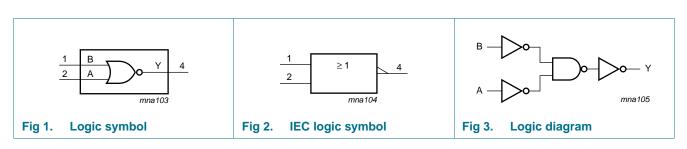
Table 1. Ordering	g information						
Type number	Package						
	Temperature range	Name	Description	Version			
74LVC1G02GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1			
74LVC1G02GV	–40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753			
74LVC1G02GM	–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			
74LVC1G02GF	–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			
74LVC1G02GN	–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			
74LVC1G02GS	–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			
74LVC1G02GX	–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	
Type number	Marking code <sup>[1]</sup>
74LVC1G02GW	VB
74LVC1G02GV	V02
74LVC1G02GM	VB
74LVC1G02GF	VB
74LVC1G02GN	VB
74LVC1G02GS	VB
74LVC1G02GX	VB

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

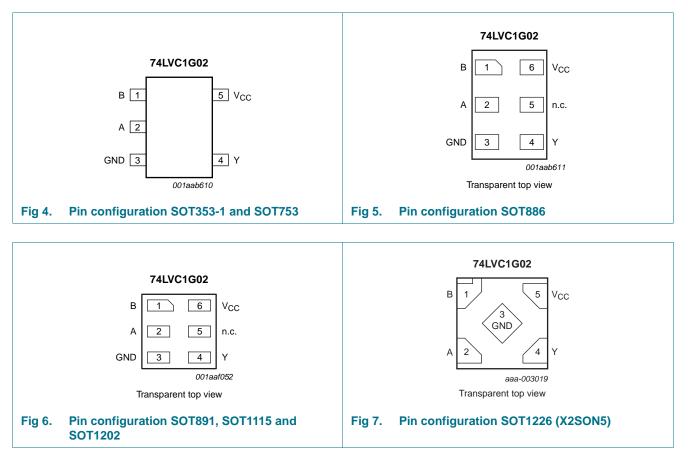
## 5. Functional diagram



74LVC1G02 Product data sheet

#### **Pinning information** 6.

### 6.1 Pinning



### 6.2 Pin description

SymbolPinDescriptionTSSOP5 and X2SON5XSON6B11A22GND33Y44A2A4	Table 3.	Pin description		
B11data inputA22data inputGND33ground (0 V)Y44data output	Symbol	Pin		Description
A22data inputGND33ground (0 V)Y44data output		TSSOP5 and X2SON5	XSON6	
GND         3         ground (0 V)           Y         4         4         data output	В	1	1	data input
Y     4     4     data output	А	2	2	data input
	GND	3	3	ground (0 V)
-	Y	4	4	data output
n.c 5 not connected	n.c.	-	5	not connected
V <sub>CC</sub> 5 6 supply voltage	V <sub>CC</sub>	5	6	supply voltage

74LVC1G02 **Product data sheet** 

### 7. Functional description

Table 4.	Function table <sup>[1]</sup>		
Inputs			Outputs
Α		В	Y
L		L	н
L		Н	L
Н		L	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 <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
Ι <sub>ΟΚ</sub>	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 <sub>CC</sub> + 0.5	V
		Power-down mode	<u>[1][2]</u> –0.5	+6.5	V
I <sub>O</sub>	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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	<u>[3]</u> _	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.

## 9. Recommended operating conditions

Table 6.	Recommended operating condi	tions				
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 <sub>CC</sub> = 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
		$V_{CC} = 2.7 \text{ V to } 5.5 \text{ V}$	-	-	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	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
VIH	HIGH-level	$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$	$0.65V_{CC}$	-	-	0.65V <sub>CC</sub>	-	V
	input voltage	$V_{CC}$ = 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	$0.7V_{CC}$	-	-	$0.7V_{CC}$	-	V
VIL	LOW-level	$V_{CC}$ = 1.65 V to 1.95 V	-	-	$0.35V_{CC}$	-	$0.35V_{CC}$	V
	input voltage	$V_{CC}$ = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		$V_{CC}$ = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		$V_{CC}$ = 4.5 V to 5.5 V	-	-	$0.3V_{CC}$	-	0.3V <sub>CC</sub>	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$						
	output voltage	$I_{O} = -100 \ \mu A;$ $V_{CC} = 1.65 \ V \text{ to } 5.5 \ V$	$V_{CC}-0.1$	-	-	$V_{CC}-0.1$	-	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 <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	-	-	0.1	-	0.1	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.70	V
		$I_0 = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.3	-	0.45	V
		$I_{O}$ = 12 mA; $V_{CC}$ = 2.7 V	-	-	0.4	-	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
I	input leakage current	$V_I = 5.5 V \text{ or GND};$ $V_{CC} = 0 V \text{ to } 5.5 V$	-	±0.1	±5	-	±100	μA

Symbol	Parameter	Conditions	-40	°C to +85	°C	–40 °C to +125 °C		Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0$ V; $V_{I}$ or $V_{O} = 5.5$ V	-	±0.1	±10	-	±200	μA
I <sub>CC</sub>	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	-	200	μA
$\Delta I_{CC}$	additional supply current		-	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

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[1] All typical values are measured at V<sub>CC</sub> = 3.3 V and T<sub>amb</sub> = 25 °C.

### **11. Dynamic characteristics**

#### **Dynamic characteristics** Table 8.

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 <mark>[1]</mark>	Max	Min	Мах	
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	3.2	8.0	1.0	10.5	ns
		$V_{CC}$ = 2.3 V to 2.7 V		0.5	2.2	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	$V_1 = GND \text{ to } V_{CC};$ $V_{CC} = 3.3 \text{ V}$	<u>[3]</u>	-	14	-	-	-	pF

[1] Typical values are measured at T<sub>amb</sub> = 25 °C and V<sub>CC</sub> = 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 ( $P_D$  in  $\mu W$ ).

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

 $f_i$  = input frequency in MHz;

 $f_o = output frequency in MHz;$ 

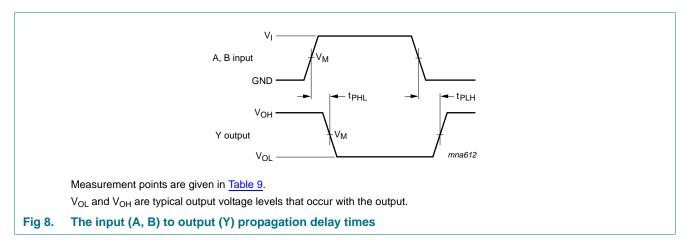
 $C_{L}$  = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V;

N = number of inputs switching;

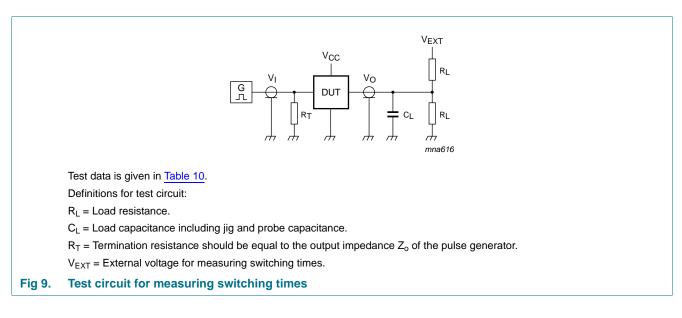
 $\Sigma(C_L \times V_{CC}^2 \times f_o)$  = sum of outputs.

### 12. 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	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
2.3 V to 2.7 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
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 <sub>CC</sub>	0.5V <sub>CC</sub>



### **NXP Semiconductors**

## 74LVC1G02

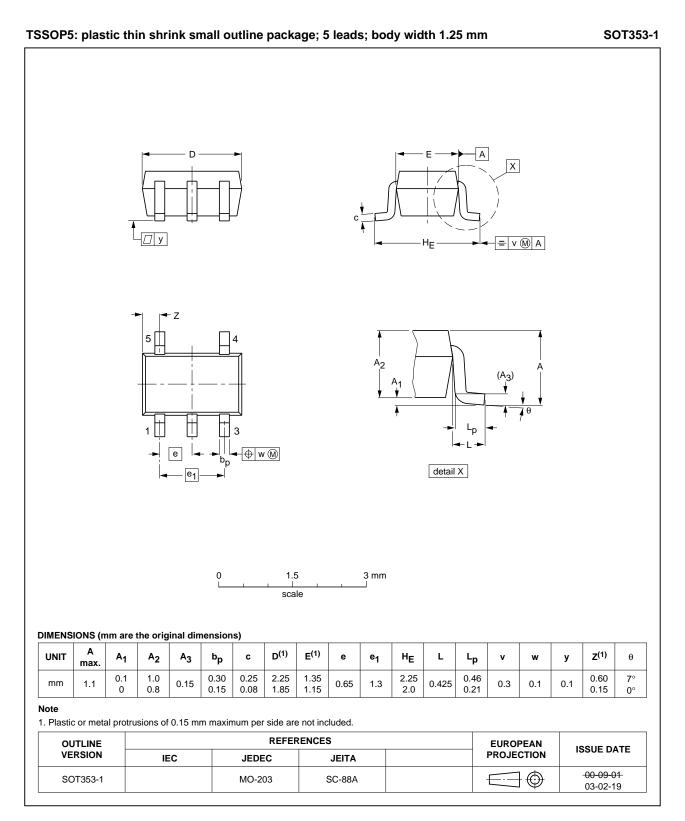
Single 2-input NOR gate

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

74LVC1G02

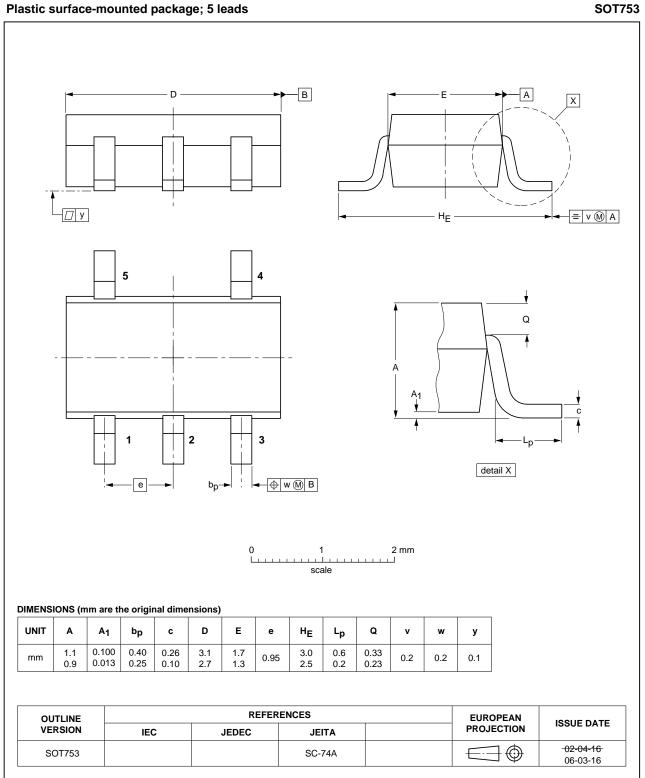
Single 2-input NOR gate

### 13. Package outline



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

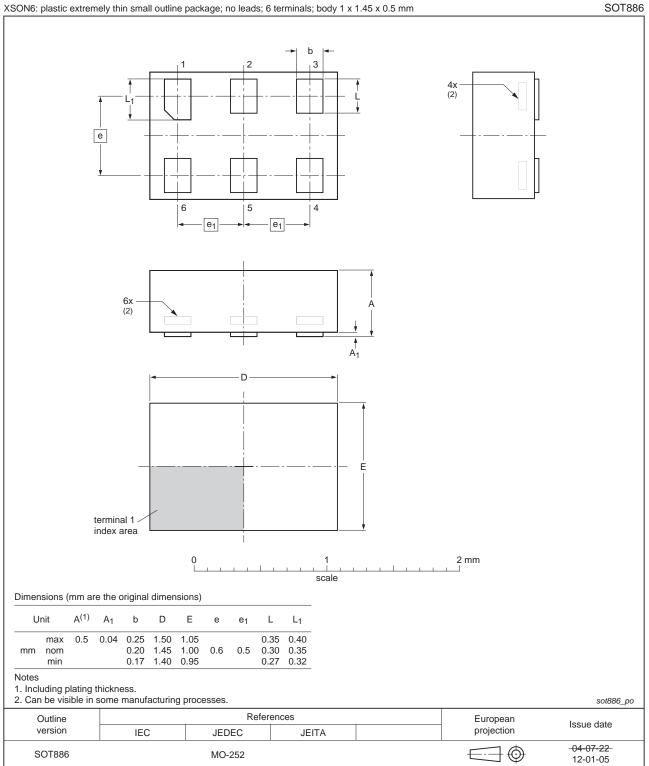
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#### Plastic surface-mounted package; 5 leads

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

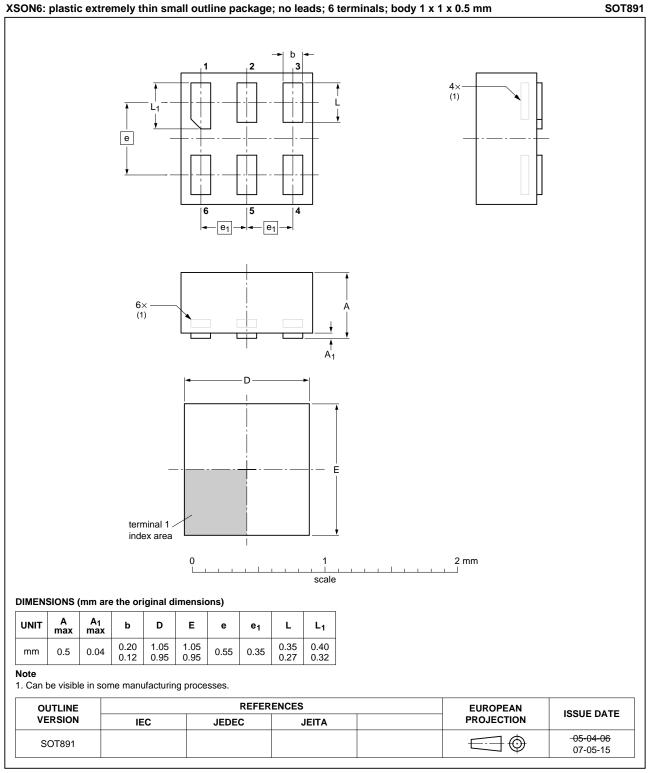
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# XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm

Fig 12. Package outline SOT886 (XSON6)

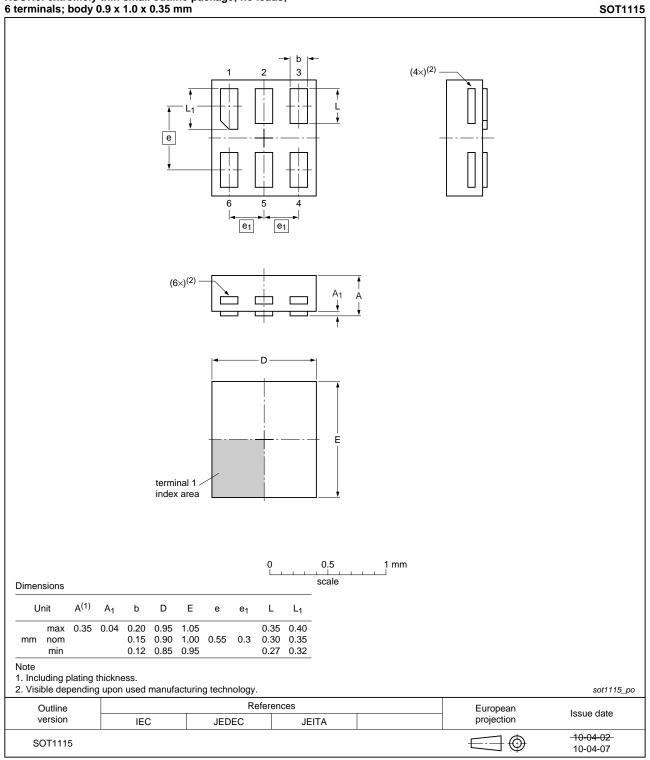
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### XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm

Fig 13. Package outline SOT891 (XSON6)

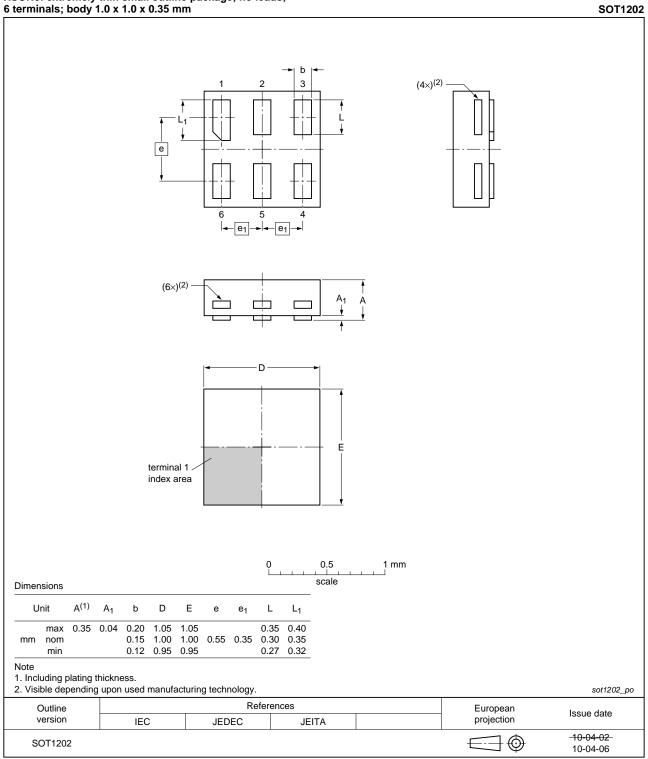
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# XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 14. Package outline SOT1115 (XSON6)

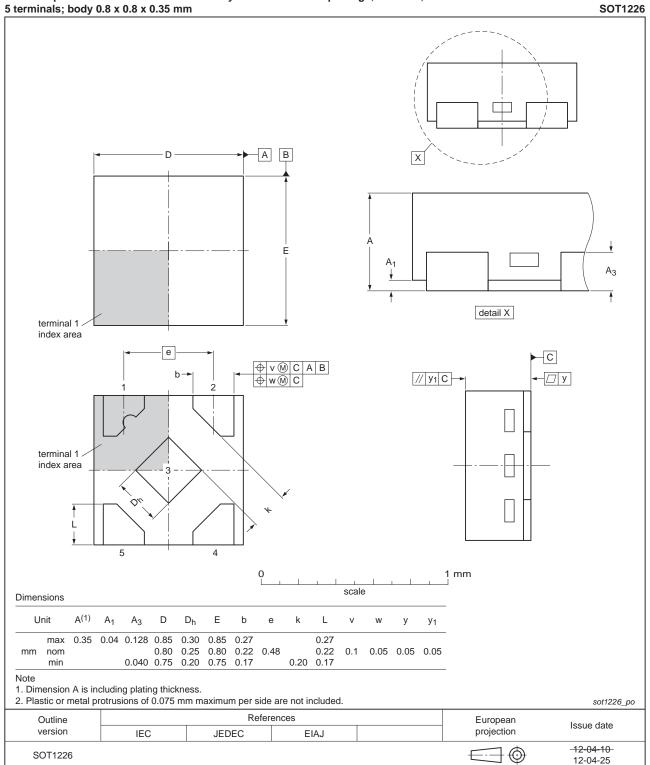
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XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

Fig 15. Package outline SOT1202 (XSON6)

74LVC1G02 **Product data sheet** 



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
74LVC1G02 v.11	20120629	Product data sheet	-	74LVC1G02 v.10
Modifications:	<ul> <li>Added type</li> </ul>	number 74LVC1G02GX (S	OT1226)	
74LVC1G02 v.10	20120305	Product data sheet	-	74LVC1G02 v.9
Modifications:	<ul> <li>Package ou</li> </ul>	Itline drawing of SOT886 (F	igure 12) modified.	
74LVC1G02 v.9	20111209	Product data sheet	-	74LVC1G02 v.8
Modifications:	<ul> <li>Legal pages</li> </ul>	s updated.		
74LVC1G02 v.8	20101020	Product data sheet	-	74LVC1G02 v.7
74LVC1G02 v.7	20070718	Product data sheet	-	74LVC1G02 v.6
74LVC1G02 v.6	20060914	Product data sheet	-	74LVC1G02 v.5
74LVC1G02 v.5	20040907	Product specification	-	74LVC1G02 v.4
74LVC1G02 v.4	20021002	Product specification	-	74LVC1G02 v.3
74LVC1G02 v.3	20020515	Product specification	-	74LVC1G02 v.2
74LVC1G02 v.2	20010411	Product specification	-	74LVC1G02 v.1
74LVC1G02 v.1	20001114	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".

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# 74LVC1G02

#### Single 2-input NOR gate

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