Product data sheet

1. General description

The 74LVC2G02 is a dual 2-input NOR gate. 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 environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the potentially 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
- 5 V tolerant outputs for interfacing with 5 V logic
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power consumption
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- 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: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



Dual 2-input NOR gate

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC2G02DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74LVC2G02DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC2G02GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1
74LVC2G02GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116
74LVC2G02GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203

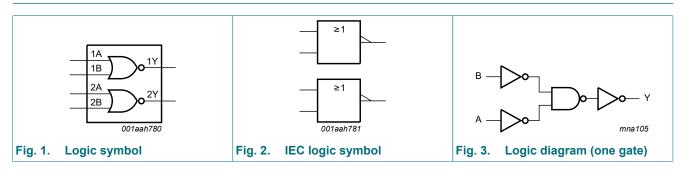
4. Marking

Table 2. Marking codes

Type number	Marking code[1]
74LVC2G02DP	V02
74LVC2G02DC	V02
74LVC2G02GT	V02
74LVC2G02GN	VB
74LVC2G02GS	VB

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

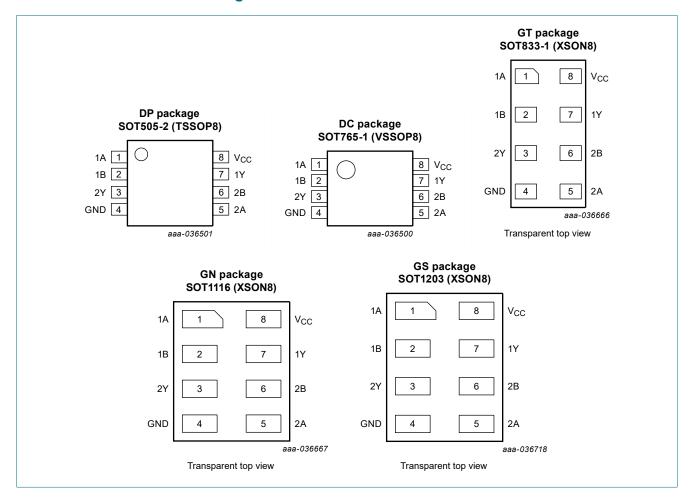
5. Functional diagram



Dual 2-input NOR gate

6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
1A, 2A	1, 5	data input
1B, 2B	2, 6	data input
GND	4	ground (0 V)
1Y, 2Y	7, 3	data output
V _{CC}	8	supply voltage

Dual 2-input NOR gate

7. Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care.$

Input		Output
nA	nB	nY
L	L	Н
X	Н	L
Н	X	L

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

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

9. Recommended operating conditions

Table 6. Operating conditions

Symbol	Parameter	Conditions	Min	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
		Power-down mode; V _{CC} = 0 V	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

^[2] For SOT505-2 (TSSOP8) package: Ptot derates linearly with 4.6 mW/K above 96 °C.

For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.

For SOT833-1 (XSON8) package: Ptot derates linearly with 3.1 mW/K above 68 °C.

For SOT1116 (XSON8) package: P_{tot} derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package: Ptot derates linearly with 3.6 mW/K above 81 °C.

Dual 2-input NOR gate

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
T _{amb} = -	40 °C to +85 °C				ı	
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3 × V _{CC}	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	1.53	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	1.9	2.13	-	V
		I_{O} = -12 mA; V_{CC} = 2.7 V	2.2	2.50	-	V
		I_{O} = -24 mA; V_{CC} = 3.0 V	2.3	2.60	-	V
		I_{O} = -32 mA; V_{CC} = 4.5 V	3.8	4.10	-	V
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 _O = 4 mA; V _{CC} = 1.65 V	-	0.08	0.45	V
		I_{O} = 8 mA; V_{CC} = 2.3 V	-	0.14	0.3	V
		I_{O} = 12 mA; V_{CC} = 2.7 V	-	0.19	0.4	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	0.37	0.55	V
		$I_O = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.43	0.55	V
l _l	input leakage current	$V_{I} = 5.5 \text{ V or GND}; V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	±0.1	±1	μΑ
I_{OFF}	power-off leakage current	V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$	-	±0.1	±2	μΑ
I _{CC}	supply current	$V_1 = 5.5 \text{ V or GND}; V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}; I_O = 0 \text{ A}$	-	0.1	4	μA
ΔI _{CC}	additional supply current	per pin; $V_1 = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	5	500	μΑ
Cı	input capacitance		-	2.5	-	pF

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
T _{amb} = -2	40 °C to +125 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3 × V _{CC}	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	0.95	-	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	1.7	-	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	1.9	-	-	V
		I_{O} = -24 mA; V_{CC} = 3.0 V	2.0	-	-	V
		I_{O} = -32 mA; V_{CC} = 4.5 V	3.4	-	-	V
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 _O = 4 mA; V _{CC} = 1.65 V	-	-	0.70	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.60	V
		I_{O} = 24 mA; V_{CC} = 3.0 V	-	-	0.80	V
		I_{O} = 32 mA; V_{CC} = 4.5 V	-	-	0.80	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	-	±1	μΑ
I _{OFF}	power-off leakage current	V _I or V _O = 5.5 V; V _{CC} = 0 V	-	-	±2	μΑ
I _{CC}	supply current	$V_1 = 5.5 \text{ V or GND}; V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}; I_O = 0 \text{ A}$	-	-	4	μΑ
ΔI _{CC}	additional supply current	per pin; $V_1 = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$; $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	-	500	μΑ

^[1] All typical values are measured at T_{amb} = 25 °C.

Dual 2-input NOR gate

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions	-40	°C to +85	°C	-40 °C to	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	nA, nB to nY; see Fig. 4 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.2	3.8	8.9	1.2	11.2	ns
		V _{CC} = 2.3 V to 2.7 V	8.0	2.4	5.4	0.8	6.8	ns
		V _{CC} = 2.7 V	8.0	3.2	6.0	0.8	7.5	ns
		V _{CC} = 3.0 V to 3.6 V	0.6	2.4	4.9	0.6	6.2	ns
		V _{CC} = 4.5 V to 5.5 V	0.6	1.8	4.3	0.6	5.5	ns
C _{PD}	power dissipation capacitance	per gate; V _I = GND to V _{CC} [3]	-	14	-	-	-	pF

- Typical values are measured at nominal V_{CC} and at T_{amb} = 25 °C.
- t_{pd} is the same as t_{PLH} and t_{PHL} . C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

f_i = input frequency in MHz;

 f_o = output frequency in MHz;

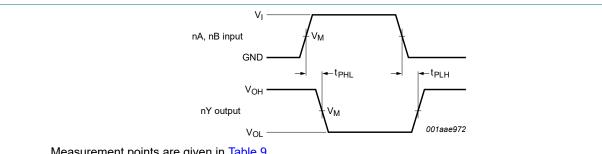
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC})^2 \times f_0$ = sum of outputs.

11.1. Waveforms and test circuit



Measurement points are given in Table 9.

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

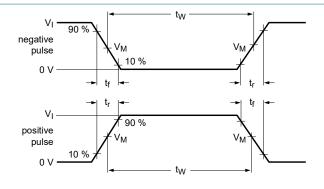
Input (nA, nB) to output (nY) propagation delays

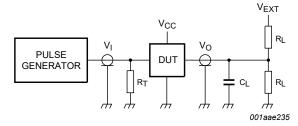
Table 9. Measurement points

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

74LVC2G02

Dual 2-input NOR gate





Test data is given in <u>Table 10</u>.

Definitions for test circuit:

R_L = Load resistor;

C_L = Load capacitance including jig and probe capacitance;

 R_{T} = Termination resistance should be equal to output impedance Z_{o} of the pulse generator;

V_{EXT} = Test voltage for switching times.

Fig. 5. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input L		Load		V _{EXT}
V _{CC}	VI	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

Dual 2-input NOR gate

12. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

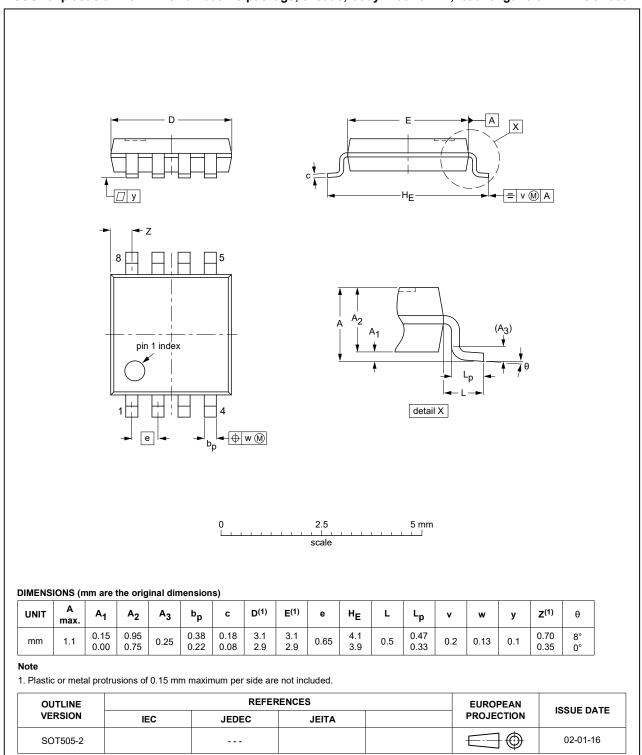


Fig. 6. Package outline SOT505-2 (TSSOP8)

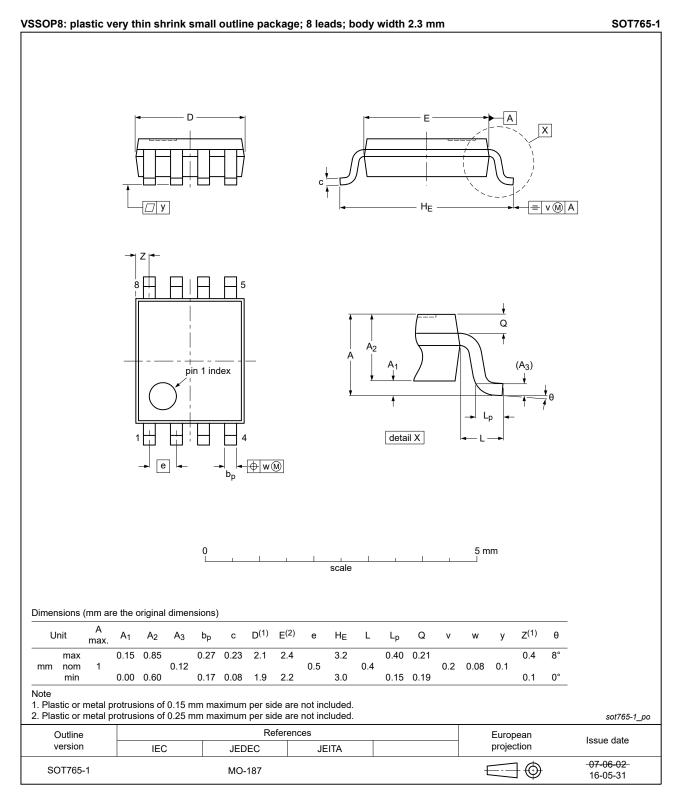


Fig. 7. Package outline SOT765-1 (VSSOP8)

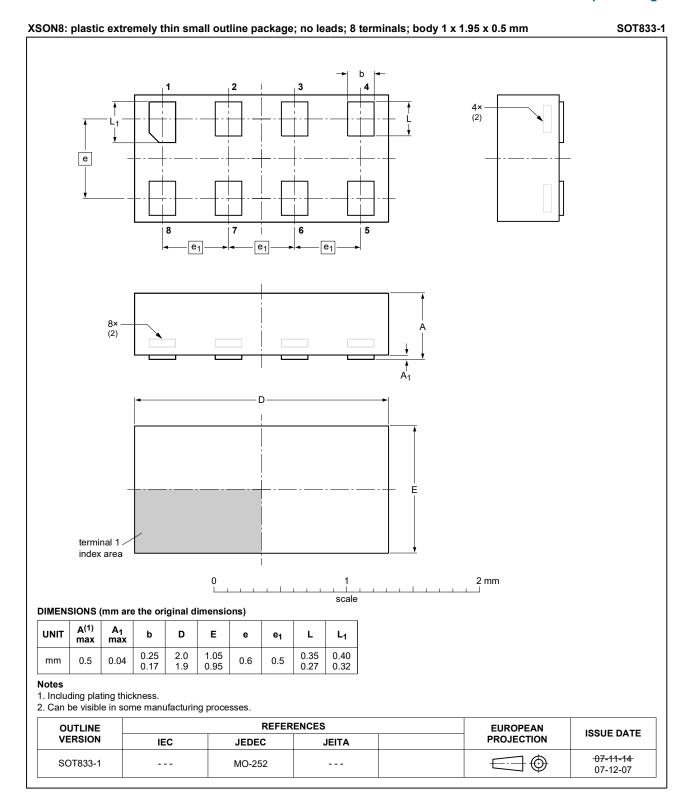


Fig. 8. Package outline SOT833-1 (XSON8)

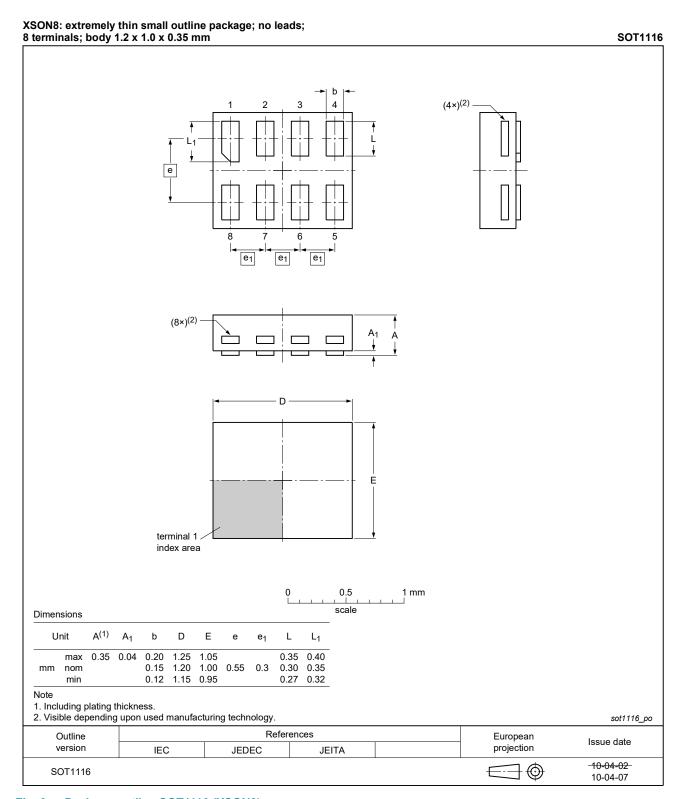


Fig. 9. Package outline SOT1116 (XSON8)

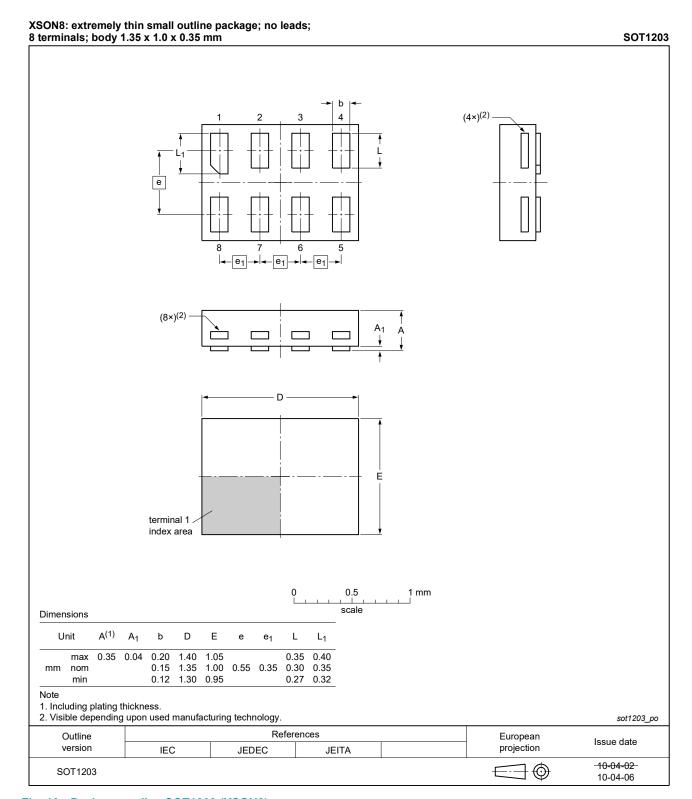


Fig. 10. Package outline SOT1203 (XSON8)

Dual 2-input NOR gate

13. Abbreviations

Table 11. Abbreviations

Acronym	Description	
ANSI	American National Standards Institute	
CDM	Charged Device Model	
CMOS	Complementary Metal-Oxide Semiconductor	
DUT	Device Under Test	
ESD	ElectroStatic Discharge	
ESDA	ElectroStatic Discharge Association	
НВМ	Human Body Model	
JEDEC	Joint Electron Device Engineering Council	
TTL	Transistor-Transistor Logic	

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC2G02 v.16	20240812	Product data sheet	-	74LVC2G02 v.15		
Modifications:	Type number	Type number 74LVC2G02GF (SOT1089/XSON8) removed.				
74LVC2G02 v.15	20230815	Product data sheet	-	74LVC2G02 v.14		
Modifications:	Section 2: E	Section 2: ESD specification updated according to the latest JEDEC standard.				
74LVC2G02 v.14	20210721	Product data sheet	-	74LVC2G02 v.13		
Modifications:	Section 1 a	Type Hamber 7 Tev 02 002 014 (00 1002 2/XQ) 140/10/10/10/00.				
74LVC2G02 v.13	20180420	Product data sheet	-	74LVC2G02 v.12		
Modifications:	guidelines o Legal texts	guidelines of Nexperia. • Legal texts have been adapted to the new company name where appropriate.				
74LVC2G02 v.12	20161212	Product data sheet	-	74LVC2G02 v.11		
Modifications:	• <u>Table 7</u> : The	<u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC2G02 v.11	20130408	Product data sheet	-	74LVC2G02 v.10		
Modifications:	For type nu	For type number 74LVC2G02GD XSON8U has changed to XSON8.				
74LVC2G02 v.10	20120622	Product data sheet	-	74LVC2G02 v.9		
Modifications:	For type nu	For type number 74LVC2G02GM the SOT code has changed to SOT902-2.				
74LVC2G02 v.9	20111130	Product data sheet	-	74LVC2G02 v.8		
Modifications:	Legal page:	Legal pages updated.				
74LVC2G02 v.8	20101020	Product data sheet	-	74LVC2G02 v.7		
74LVC2G02 v.7	20080606	Product data sheet	-	74LVC2G02 v.6		
74LVC2G02 v.6	20080222	Product data sheet	-	74LVC2G02 v.5		
74LVC2G02 v.5	20070904	Product data sheet	-	74LVC2G02 v.4		
74LVC2G02 v.4	20060515	Product data sheet	-	74LVC2G02 v.3		

Dual 2-input NOR gate

15. Legal information

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.

- 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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Dual 2-input NOR gate

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