

74LVC1G00GM,132 Datasheet



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DiGi Electronics Part Number 74LVC1G00GM,132-DG

Manufacturer Nexperia USA Inc.

Manufacturer Product Number 74LVC1G00GM,132

Description IC GATE NAND 1CH 2-INP 6XSON

Detailed Description NAND Gate IC 1 Channel 6-XSON, SOT886 (1.45x1)



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74LVC1G00GM,132	Nexperia USA Inc.
Series:	Product Status:
74LVC	Active
Logic Type:	Number of Circuits:
NAND Gate	1
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
1.65V ~ 5.5V	4 μΑ
Current - Output High, Low:	Input Logic Level - Low:
32mA, 32mA	0.7V ~ 0.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.7V ~ 2V	4ns @ 5V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
6-XSON, SOT886 (1.45x1)	6-XFDFN
Base Product Number:	
74LVC1G00	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

74LVC1G00

Single 2-input NAND gate Rev. 15 — 23 September 2024

Product data sheet

1. General description

The 74LVC1G00 is a single 2-input NAND 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
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- · CMOS low power dissipation
- I_{OFF} circuitry provides partial Power-down mode operation
- ±24 mA output drive (V_{CC} = 3.0 V)
- 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)
 - JESD8C (2.7 V to 3.6 V)
 - JESD36 (4.5 V to 5.5 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



3. Ordering information

Table 1. Ordering information

Type number	Package	ckage					
	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 × 1.45 × 0.5 mm	<u>SOT886</u>			
74LVC1G00GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115			
74LVC1G00GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202			
74LVC1G00GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.32 mm	SOT1226-3			
74LVC1G00GZ	-40 °C to +125 °C	XSON5	plastic thermal enhanced extremely thin small outline package with side-wettable flanks (SWF); no leads; 5 terminals; body 1.1 × 0.85 × 0.5 mm	SOT8065-1			

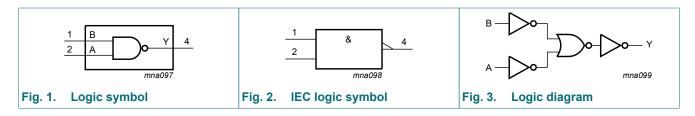
4. Marking

Table 2. Marking codes

Type number	Marking[1]
74LVC1G00GW	VA
74LVC1G00GV	V00
74LVC1G00GM	VA
74LVC1G00GN	VA
74LVC1G00GS	VA
74LVC1G00GX	VA
74LVC1G00GZ	VA

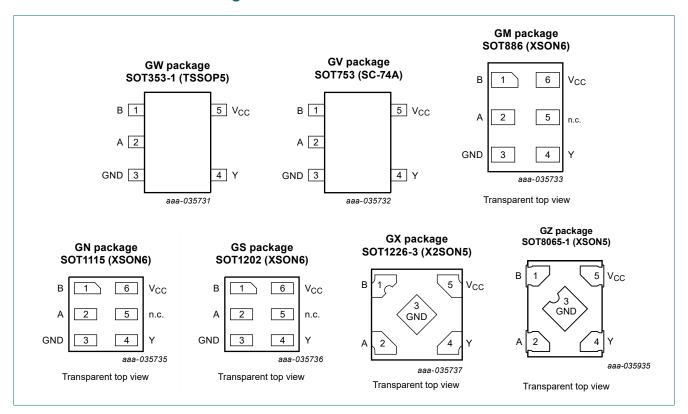
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

Symbol	Pin	Pin			
	TSSOP5, SC-74A, XSON5 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

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$

Inputs		Outputs
A	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	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
I _{IK}	input clamping current	V _I < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
I _{OK}	output clamping current	V _O > V _{CC} or V _O < 0 V		-	±50	mA
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
Io	output current	$V_O = 0 V \text{ to } V_{CC}$		-	±50	mA
I _{CC}	supply current			-	+100	mA
I _{GND}	ground current			-100	-	mΑ
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C	[2]	-	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] For SOT353-1 (TSSOP5) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT753 (SC-74A) package: P_{tot} derates linearly with 3.8 mW/K above 85 $^{\circ}\text{C}.$

For SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 $^{\circ}\text{C}.$

For SOT1115 (XSON6) package: Ptot derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1226-3 (X2SON5) package: P_{tot} derates linearly with 3.0 mW/K above 67 °C.

For SOT8065-1 (XSON5) package: P_{tot} derates linearly with 3.2 mW/K above 72 °C.

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
		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

74LVC1G00

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 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	0.7V _{CC}	-	-	0.7V _{CC}	-	V
V _{IL}	LOW-level input	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	-	0.35V _{CC}	V
	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 _{CC}	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V _{CC} - 0.1	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	0.95	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	1.9	-	-	1.7	-	V
		I_{O} = -12 mA; V_{CC} = 2.7 V	2.2	-	-	1.9	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.3	-	-	2.0	-	V
		I_{O} = -32 mA; V_{CC} = 4.5 V	3.8	-	-	3.4	-	V
V _{OL}	LOW-level	V _I = V _{IH} or V _{IL}						
	output voltage	I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	-	0.1	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.70	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.3	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	-	0.60	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	-	0.80	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.55	-	0.80	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±1	-	±1	μΑ
I _{OFF}	power-off leakage current $V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$		-	±0.1	±2	-	±2	μΑ
I _{CC}	supply current	V _I = 5.5 V or GND; I _O = 0 A; V _{CC} = 1.65 V to 5.5 V	-	0.1	4	-	4	μΑ
Δl _{CC}	additional supply current	V_{CC} = 2.3 V to 5.5 V; V_{I} = V_{CC} - 0.6 V; I_{O} = 0 A; per pin	-	5	500	-	500	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 test circuit see Fig. 5.

Symbol	Parameter	Conditions		-40 °C to +85 °C			-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	A, B to Y; see <u>Fig. 4</u> [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	3.3	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	2.6	5.8	0.5	7.5	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	2.2	4.7	0.5	6.0	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	1.8	4.0	0.5	5.5	ns
C_{PD}	power dissipation capacitance	V_I = GND to V_{CC} ; [3] V_{CC} = 3.3 V	-	14	-	-	-	pF

- 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.
- 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).

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

f_i = input frequency in MHz;

 f_o = output frequency in MHz;

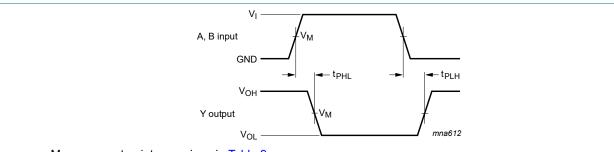
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11.1. Waveform and test circuit



Measurement points are given in Table 9.

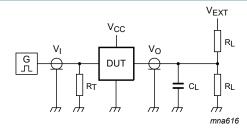
V_{OL} and V_{OH} are typical output voltage levels that occur with the output.

The input (A and B) to output (Y) propagation delay times Fig. 4.

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_o of the pulse generator;

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

Fig. 5. 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

Single 2-input NAND gate

12. Package outline

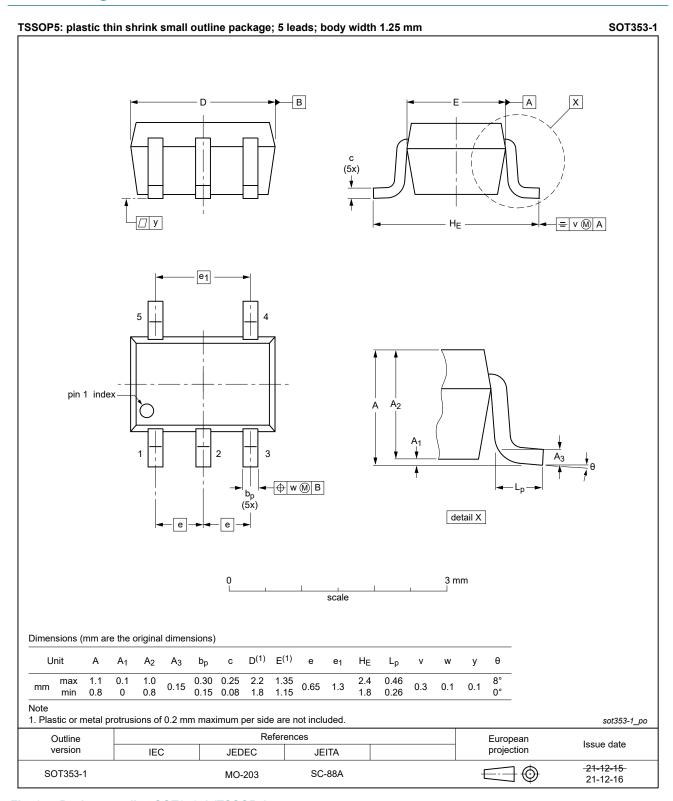


Fig. 6. Package outline SOT353-1 (TSSOP5)

Single 2-input NAND gate

Plastic surface-mounted package; 5 leads **SOT753** Α HE = v M A 5 Q 2 3 detail X ⊕ w M B 2 mm scale **DIMENSIONS** (mm are the original dimensions) $^{\rm H_{\rm E}}$ UNIT Q Α1 bp С Ε е L_{p} w У 1.1 0.100 0.40 0.26 3.1 1.7 3.0 0.6 0.33 mm 0.95 0.2 0.2 0.1 0.9 0.013 0.10 2.7 1.3 2.5 0.23 0.2 REFERENCES

OUTLINE VERSION IEC JEDEC JEITA EUROPEAN PROJECTION ISSUE DATE

SOT753 SC-74A

EUROPEAN PROJECTION OF 102-04-16-06-03-16

Fig. 7. Package outline SOT753 (SC-74A)

Product data sheet

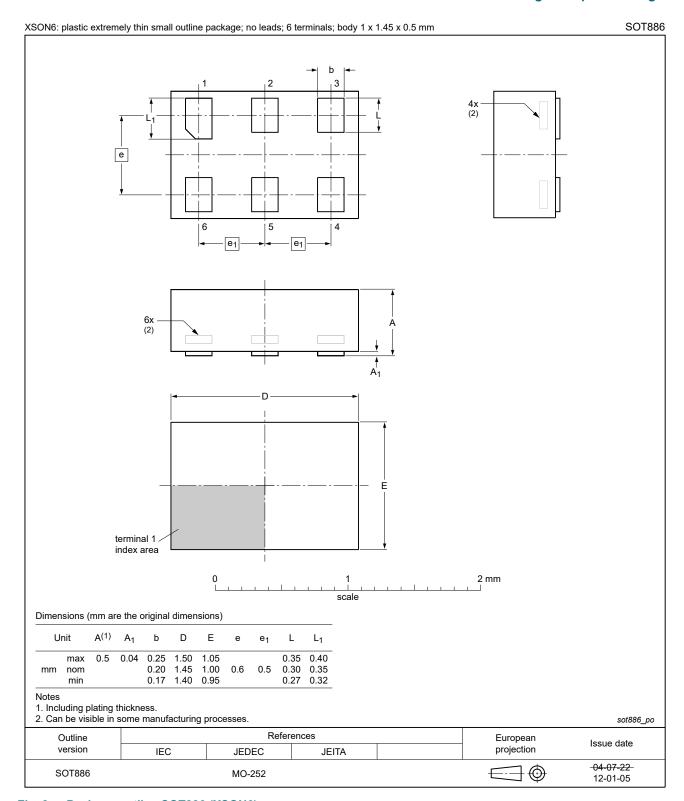


Fig. 8. Package outline SOT886 (XSON6)

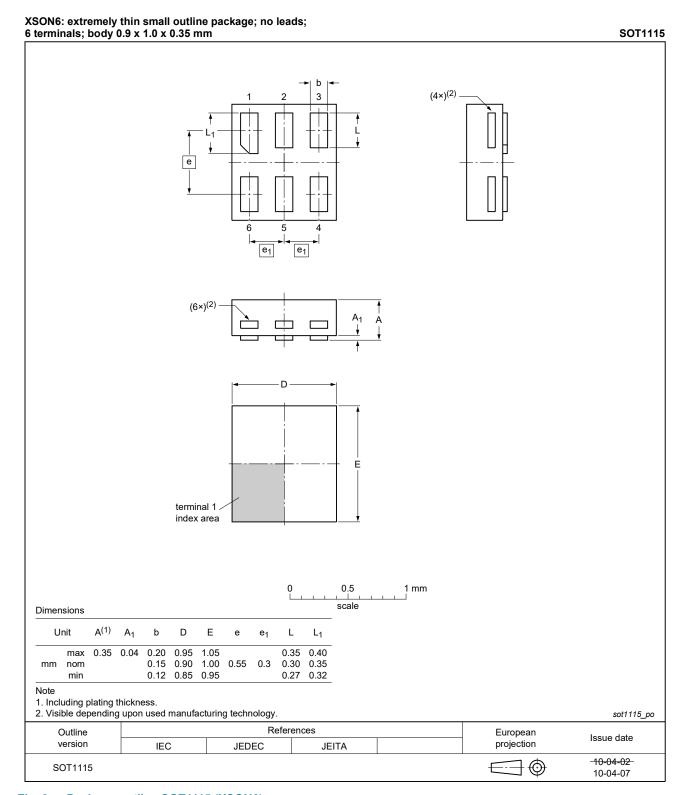


Fig. 9. Package outline SOT1115 (XSON6)

Single 2-input NAND gate

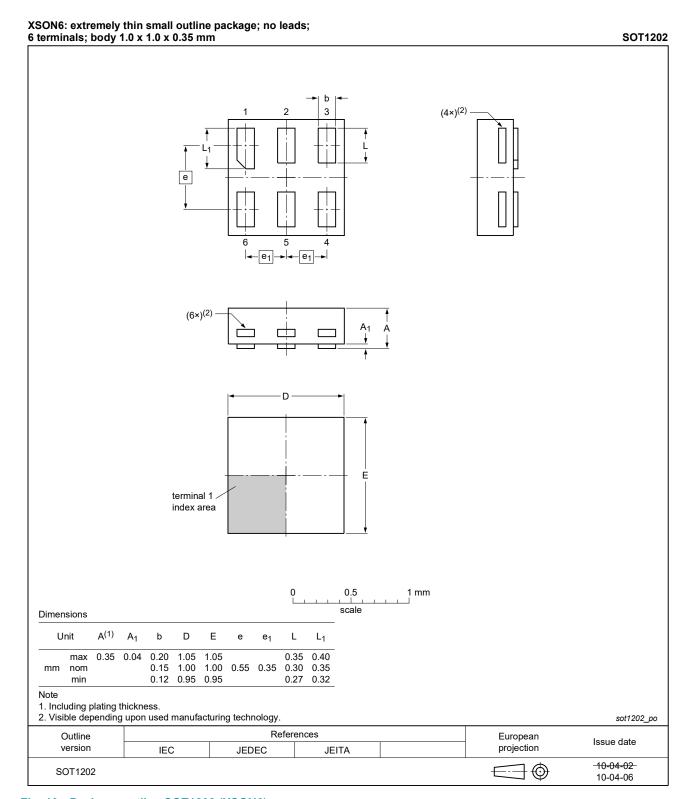


Fig. 10. Package outline SOT1202 (XSON6)

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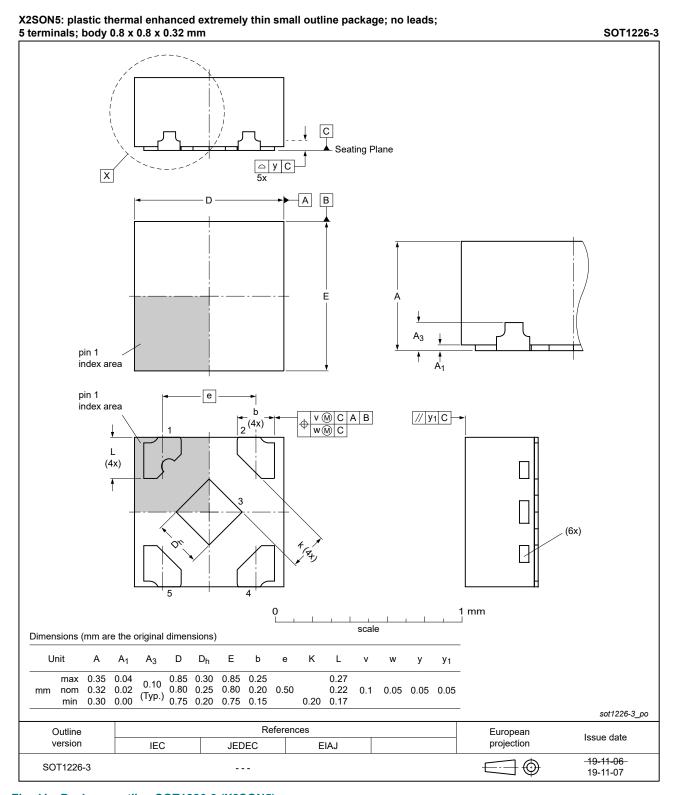


Fig. 11. Package outline SOT1226-3 (X2SON5)

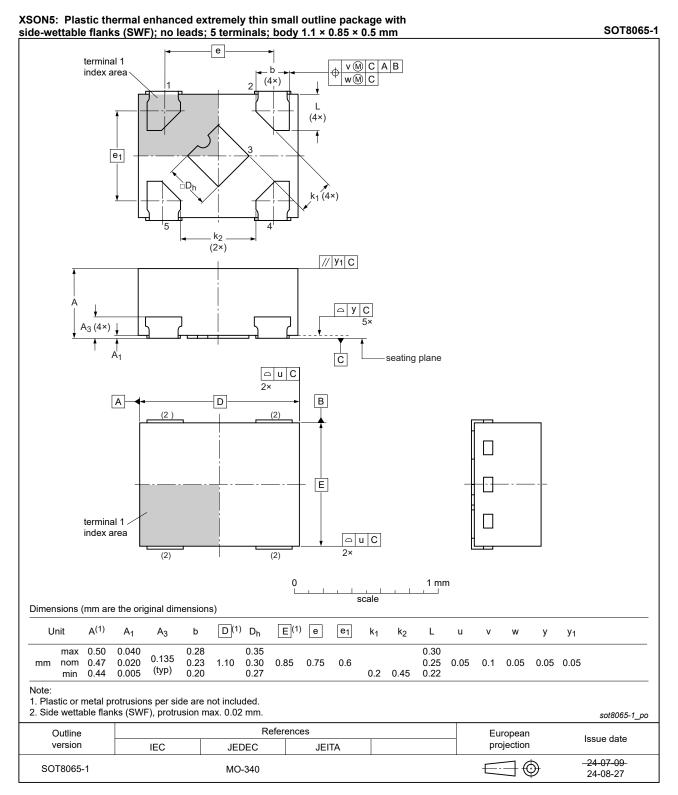


Fig. 12. Package outline SOT8065-1 (XSON5)

74LVC1G00

Single 2-input NAND 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		
74LVC1G00 v.15	20240923	Product data sheet	-	74LVC1G00 v.14		
Modifications:	Type numb	Type number 74LVC1G00GZ (SOT8065-1/XSON5) added.				
74LVC1G00 v.14	20230804	Product data sheet	-	74LVC1G00 v.13		
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74LVC1G00 v.13	20220208	Product data sheet	-	74LVC1G00 v.12		
Modifications:	Fig. 6: PackType numberTable 5: De	 Fig. 6: Package outline drawing for SOT353-1 (TSSOP5) package has changed. Type number 74LVC1G00GF (SOT891/XSON6) removed. 				
74LVC1G00 v.12	20190206	Product data sheet	-	74LVC1G00 v.11		
Modifications:	guidelines o	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. 				
74LVC1G00 v.11	20161129	Product data sheet	-	74LVC1G00 v.10		
Modifications:	• <u>Table 7</u> : The	• <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC1G00 v.10	20120702	Product data sheet	-	74LVC1G00 v.9		
Modifications:	 Added type number 74LVC1G00GX (SOT1226) Package outline drawing of SOT886 (Fig. 8) modified. 					
74LVC1G00 v.9	20111207	Product data sheet	-	74LVC1G00 v.8		
Modifications:	Legal page	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		

Single 2-input NAND 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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