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

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

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3. Ordering information

 Table 1. Ordering information

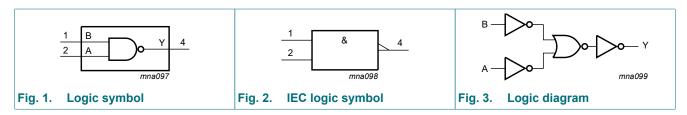
Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G00GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	<u>SOT353-1</u>
74LVC1G00GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	<u>SOT753</u>
74LVC1G00GM	-40 °C 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	<u>SOT1115</u>
74LVC1G00GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	<u>SOT1202</u>
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	<u>SOT1226-3</u>
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	<u>SOT8065-1</u>

4. Marking

Table 2. Marking codes	
Type number	Marking[1]
74LVC1G00GW	VA
74LVC1G00GV	V00
74LVC1G00GM	VA
74LVC1G00GN	VA
74LVC1G00GS	VA
74LVC1G00GX	VA
74LVC1G00GZ	VA

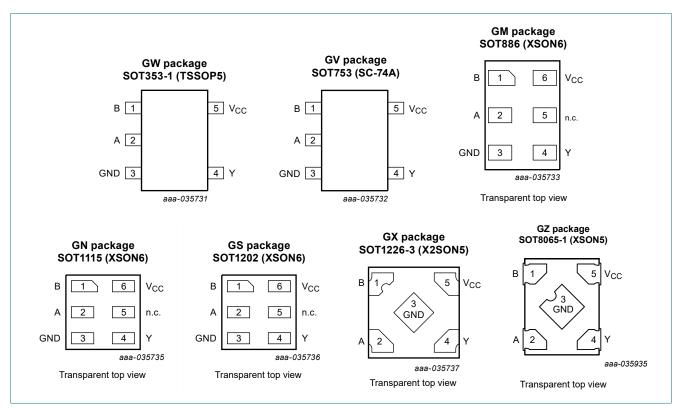
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



74LVC1G00

6. Pinning information



6.1. Pinning

6.2. 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)		
Y	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
Α	В	Y
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 ₁ < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 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
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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [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 °C.

For SOT886 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

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

For SOT1202 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT1226-3 (X2SON5) package: Ptot 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

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

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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	o +125 ℃	Unit
			Min	Typ[1]	Мах	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	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±1	-	±1	μA
I _{OFF}	power-off leakage current	V_{CC} = 0 V; V _I or V _O = 5.5 V	-	±0.1	±2	-	±2	μA
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	μA
ΔI _{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	μA
CI	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	-4	0 °C to +85	°C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Мах	
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	$V_{I} = GND \text{ to } V_{CC}; \qquad [3]$ $V_{CC} = 3.3 \text{ V}$	-	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. [1]

[2]

 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). [3]

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \sum (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$

 f_i = input frequency in MHz;

 $f_o = output$ frequency in MHz;

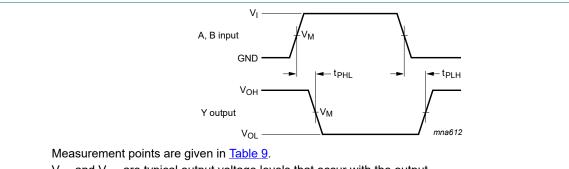
 C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11.1. Waveform and test circuit



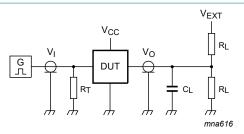
V_{OL} and V_{OH} are typical output voltage levels that occur with the output.

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}	VI	t _r = t _f	CL	RL	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

12. Package outline

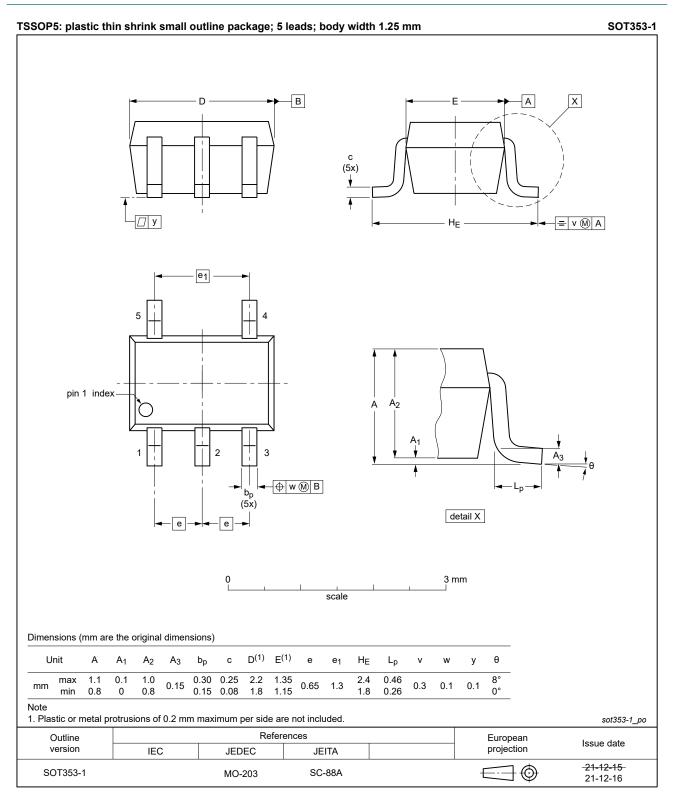


Fig. 6. Package outline SOT353-1 (TSSOP5)

Single 2-input NAND gate



SOT753

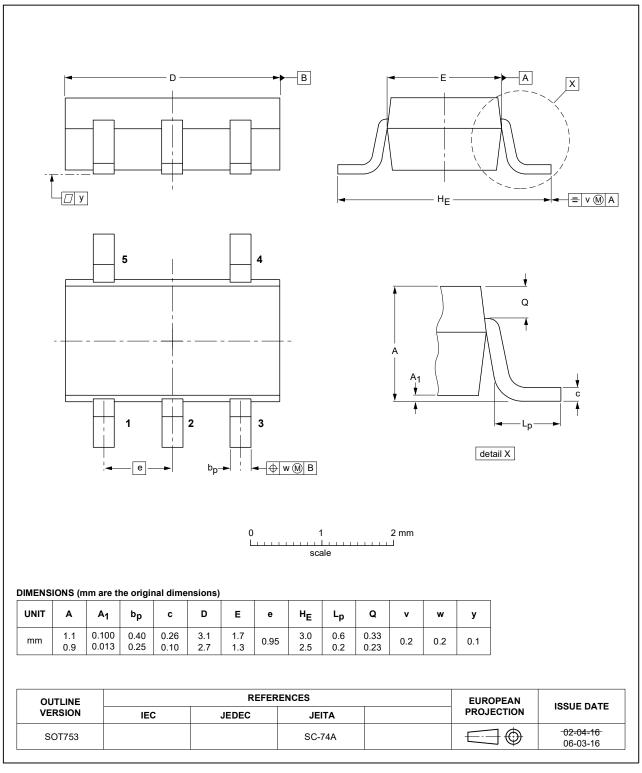


Fig. 7. Package outline SOT753 (SC-74A)

Single 2-input NAND gate

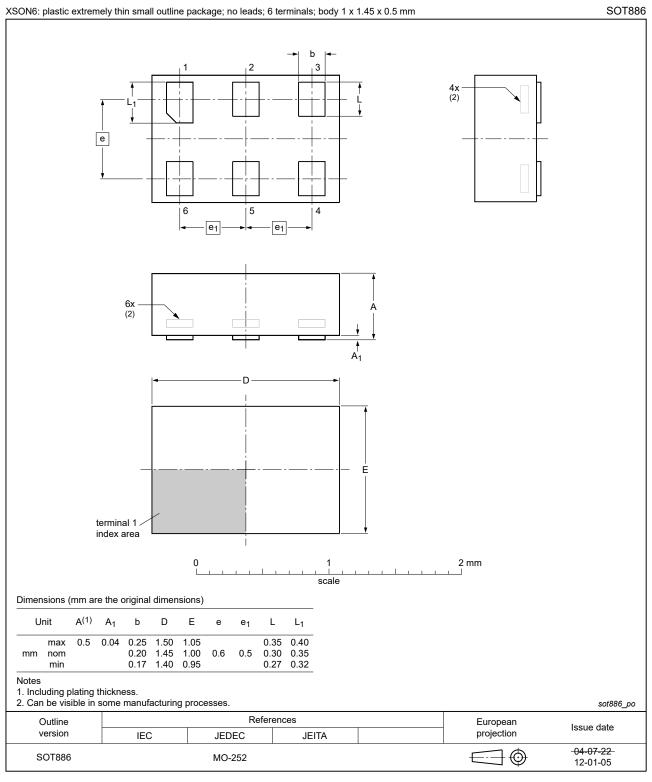
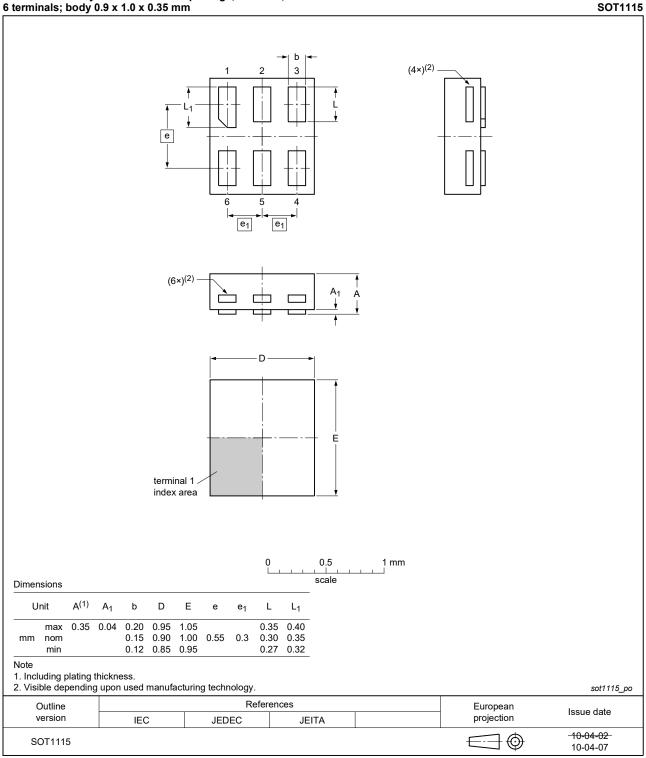


Fig. 8. Package outline SOT886 (XSON6)

Single 2-input NAND gate

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



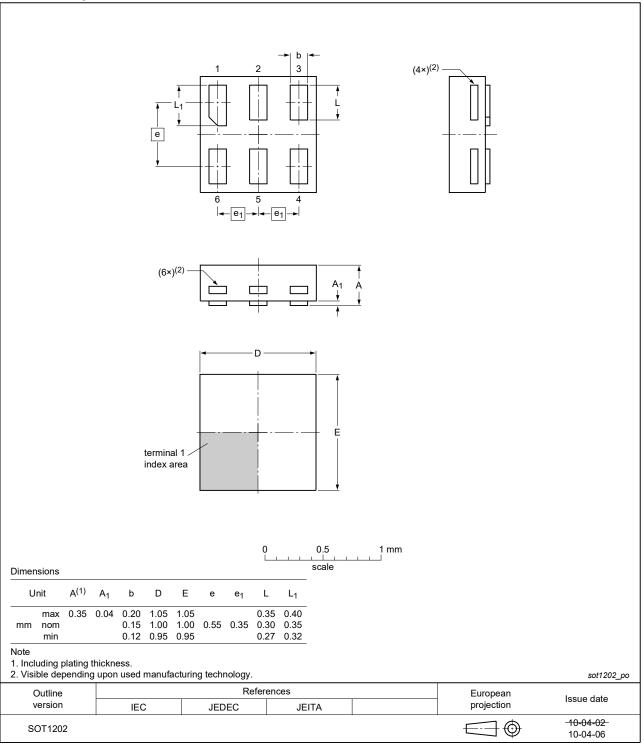


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SOT1202

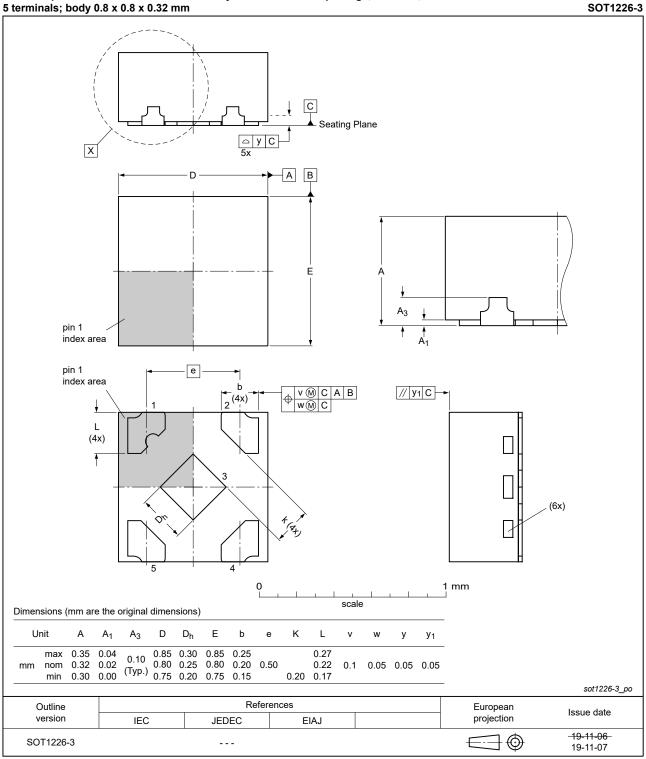
Single 2-input NAND gate

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





Single 2-input NAND gate



X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.32 mm

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

Single 2-input NAND gate

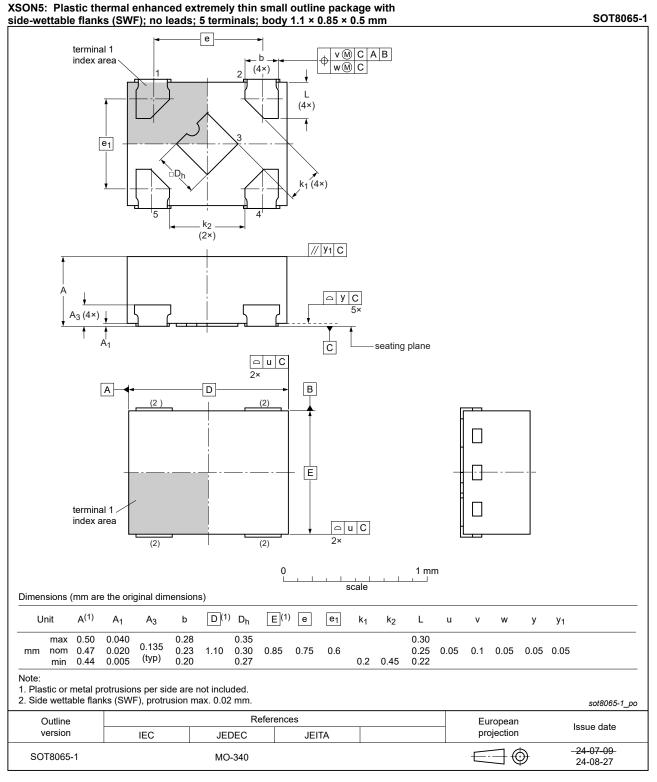


Fig. 12. Package outline SOT8065-1 (XSON5)

13. Abbreviations

Table 11. Abbreviatio	ons
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
HBM	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G00 v.15	20240923	Product data sheet	-	74LVC1G00 v.14
Modifications:	Type number	er 74LVC1G00GZ (SOT	3065-1/XSON5) add	ed.
74LVC1G00 v.14	20230804	Product data sheet	-	74LVC1G00 v.13
Modifications:	<u>Section 2</u> : E	ESD specification update	d according to the la	atest JEDEC standard.
74LVC1G00 v.13	20220208	Product data sheet	-	74LVC1G00 v.12
Modifications:	 Fig. 6: Pack Type number Table 5: De 	X2SON5) package chang kage outline drawing for s er 74LVC1G00GF (SOT8 rating values for P _{tot} tota nd <u>Section 2</u> updated.	SOT353-1 (TSSOP 391/XSON6) remove	b) package has changed. ed.
74LVC1G00 v.12	20190206	Product data sheet	-	74LVC1G00 v.11
Modifications:	guidelines o	of this data sheet has be of Nexperia. have been adapted to th	C C	
74LVC1G00 v.11	20161129	Product data sheet	-	74LVC1G00 v.10
Modifications:	• <u>Table 7</u> : The	e maximum limits for leal	kage current and su	naly aurrent have abanged
				pply culterit have changed.
74LVC1G00 v.10	20120702	Product data sheet	-	74LVC1G00 v.9
74LVC1G00 v.10 Modifications:	Added type	Product data sheet number 74LVC1G00GX utline drawing of SOT886	, ,	
Modifications:	Added type	number 74LVC1G00GX	, ,	
Modifications: 74LVC1G00 v.9	Added type Package ou	number 74LVC1G00GX utline drawing of SOT886 Product data sheet	, ,	74LVC1G00 v.9
Modifications: 74LVC1G00 v.9 Modifications:	Added type Package ou 20111207	number 74LVC1G00GX utline drawing of SOT886 Product data sheet	, ,	74LVC1G00 v.9
Modifications: 74LVC1G00 v.9 Modifications: 74LVC1G00 v.8	Added type Package ou 20111207 Legal pages	number 74LVC1G00GX utline drawing of SOT886 Product data sheet s updated.	(<u>Fig. 8</u>) modified.	74LVC1G00 v.9 74LVC1G00 v.8
Modifications: 74LVC1G00 v.9 Modifications: 74LVC1G00 v.8 74LVC1G00 v.7	Added type Package ou 20111207 Legal pages 20101020	number 74LVC1G00GX utline drawing of SOT886 Product data sheet s updated. Product data sheet	(<u>Fig. 8</u>) modified.	74LVC1G00 v.9 74LVC1G00 v.8 74LVC1G00 v.7
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	 Added type Package ou 20111207 Legal pages 20101020 20070717 20060915 	number 74LVC1G00GX atline drawing of SOT886 Product data sheet s updated. Product data sheet Product data sheet Product data sheet	(<u>Fig. 8</u>) modified.	74LVC1G00 v.9 74LVC1G00 v.8 74LVC1G00 v.7 74LVC1G00 v.6 74LVC1G00 v.5

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.

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