

74LVC1G08GW,125 Datasheet

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DiGi Electronics Part Number 74LVC1G08GW,125-DG

Manufacturer Nexperia USA Inc.

Manufacturer Product Number 74LVC1G08GW,125

Description IC GATE AND 1CH 2-INP 5TSSOP

Detailed Description AND Gate IC 1 Channel 5-TSSOP



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74LVC1G08GW,125	Nexperia USA Inc.
Series:	Product Status:
74LVC	Active
Logic Type:	Number of Circuits:
AND 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 (TA)	Surface Mount
Supplier Device Package:	Package / Case:
5-TSSOP	5-TSSOP, SC-70-5, SOT-353
Base Product Number:	
74LVC1G08	

Environmental & Export classification

8542.39.0001

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



Product data sheet

1. General description

The 74LVC1G08 is a single 2-input AND 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 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
- ±24 mA output drive (V_{CC} = 3.0 V)
- · CMOS low power dissipation
- · Direct interface with TTL levels
- Overvoltage tolerant inputs to 5.5 V
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance ≤ 250 mA
- 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



Single 2-input AND gate

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC1G08GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74LVC1G08GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753
74LVC1G08GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886
74LVC1G08GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115
74LVC1G08GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202
74LVC1G08GX	-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
74LVC1G08GZ	-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

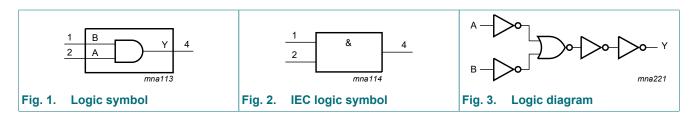
4. Marking

Table 2. Marking

Type number	Marking code [1]
74LVC1G08GW	VE
74LVC1G08GV	V08
74LVC1G08GM	VE
74LVC1G08GN	VE
74LVC1G08GS	VE
74LVC1G08GX	VE
74LVC1G08GZ	VE

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

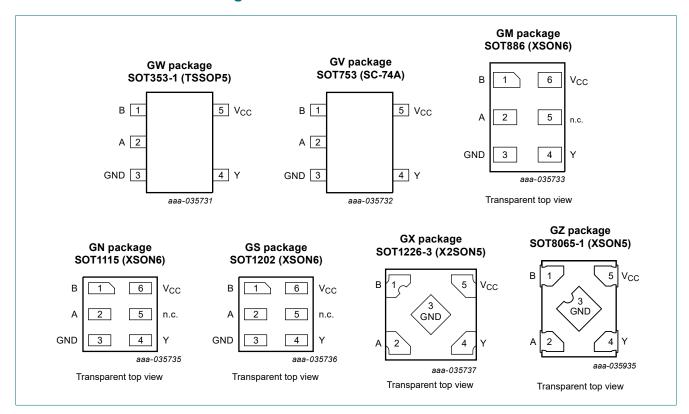
5. Functional diagram



Single 2-input AND gate

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)		
Y	4	4	data output		
n.c.	-	5	not connected		
V _{CC}	5	6	supply voltage		

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7. Functional description

Table 4. Function table

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

Input		Output
Α	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

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: Ptot 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: P_{tot} 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

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

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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	-40 °C to +85 °C			-40 °C to +125 °C		
			Min	Typ [1]	Max	Min	Max		
V _{IH}	HIGH-level input	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	0.65V _{CC}	-	V	
	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 output	V _I = V _{IH} or V _{IL}							
	voltage	I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V	
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.70	V	
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.30	-	0.45	V	
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.40	-	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	
l _l	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	
ΔI _{CC}	additional supply current	per pin; V _{CC} = 2.3 V to 5.5 V; V _I = V _{CC} - 0.6 V; I _O = 0 A	-	5	500	-	500	μΑ	
Cı	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.

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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	Unit	
			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	3.4	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	$V_1 = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3]	-	16	-	-	-	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_{PLZ} and t_{PZL} . 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;

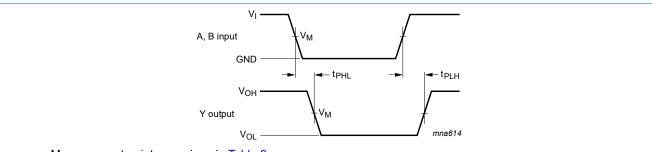
C_L = output load capacitance in pF;

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. Waveforms and test circuit



Measurement points are given in Table 9.

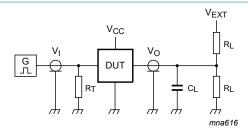
V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

The input A, B to output Y propagation delays

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}

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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		nput		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 AND gate

12. Package outline

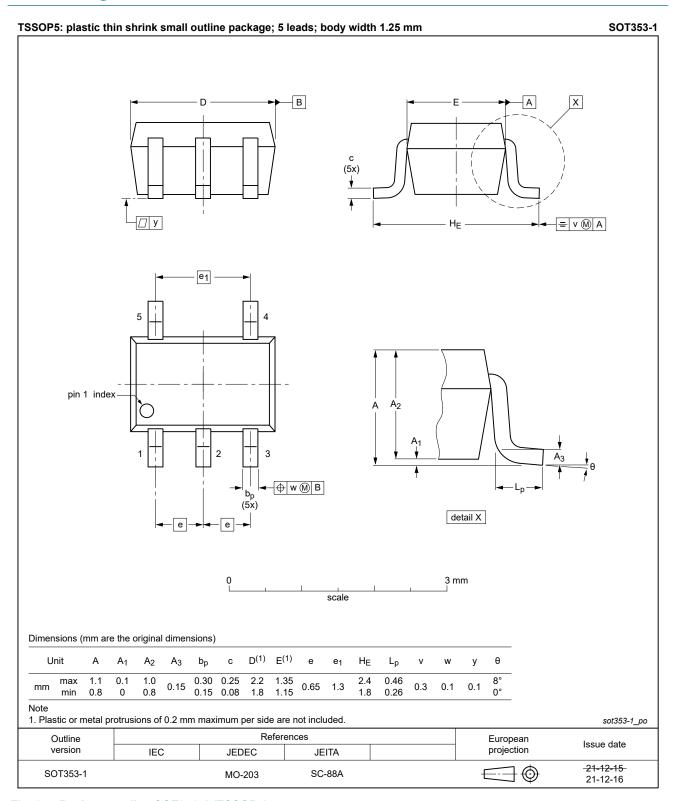
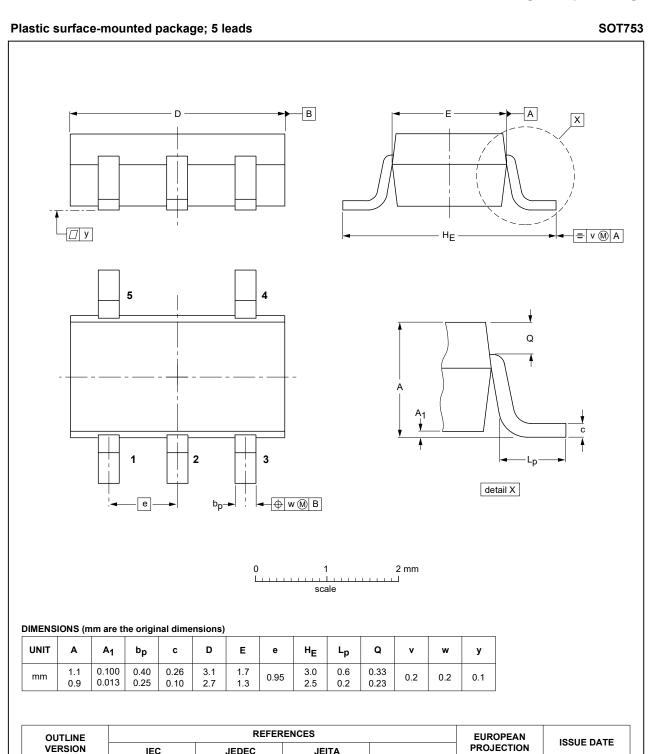


Fig. 6. Package outline SOT353-1 (TSSOP5)

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 $\bigoplus \bigoplus$ SOT753 SC-74A

JEDEC

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

IEC

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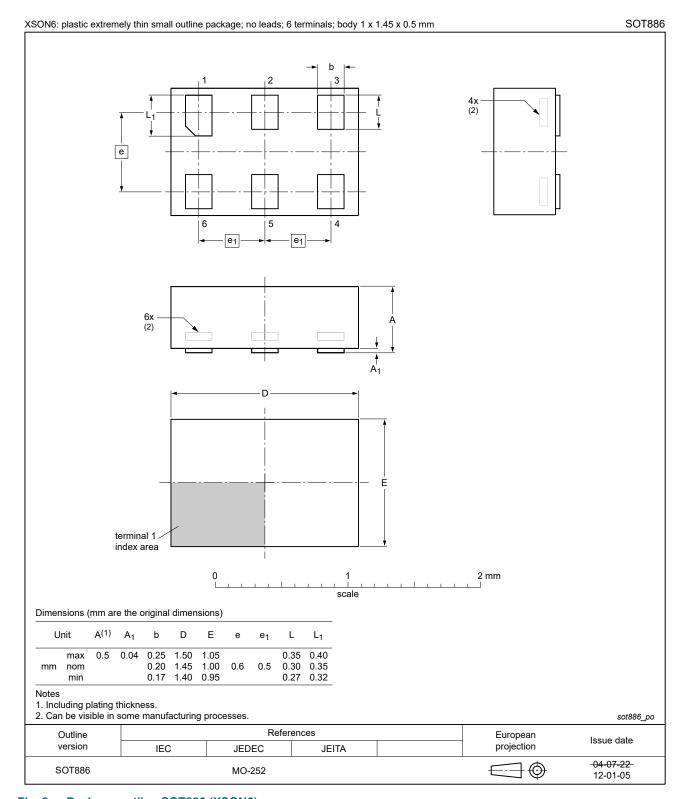


Fig. 8. Package outline SOT886 (XSON6)

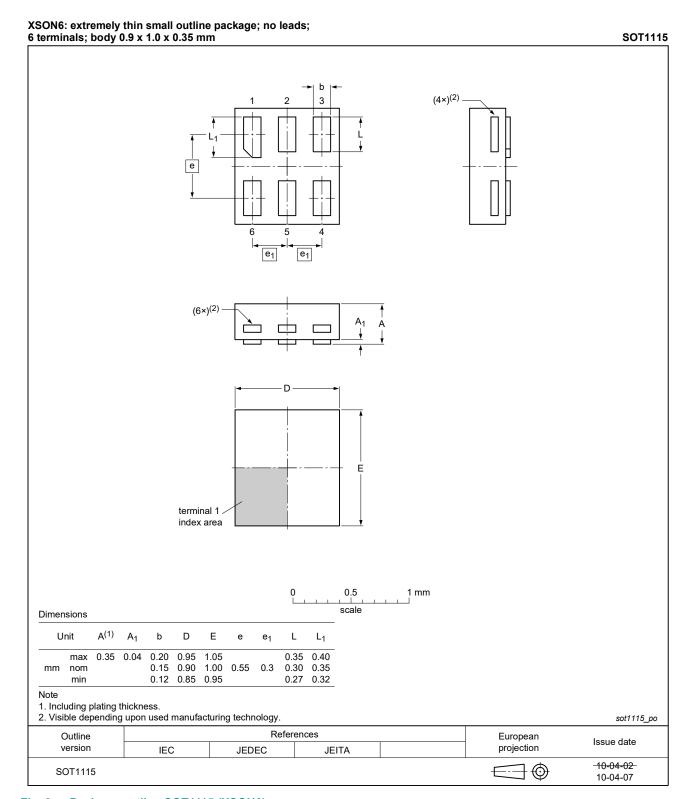


Fig. 9. Package outline SOT1115 (XSON6)

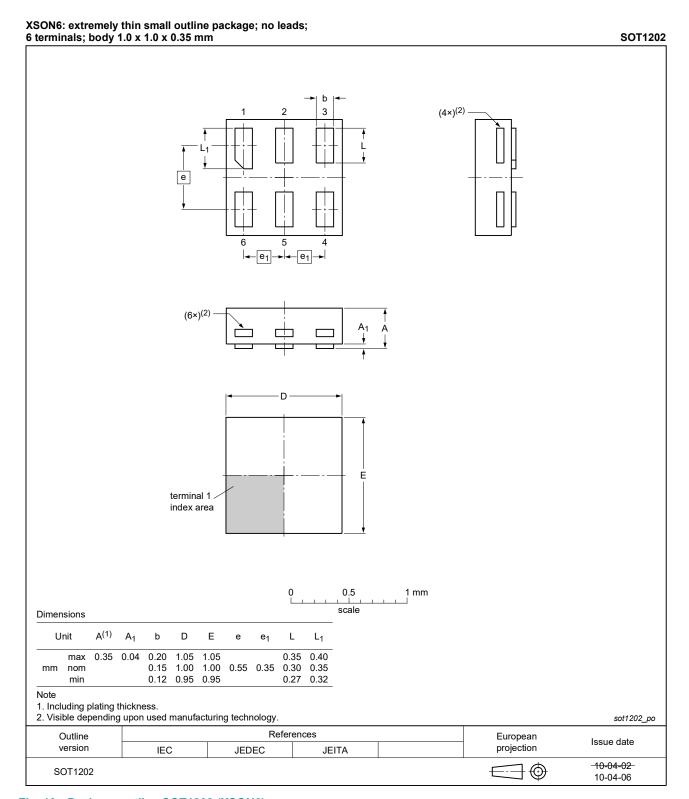


Fig. 10. Package outline SOT1202 (XSON6)

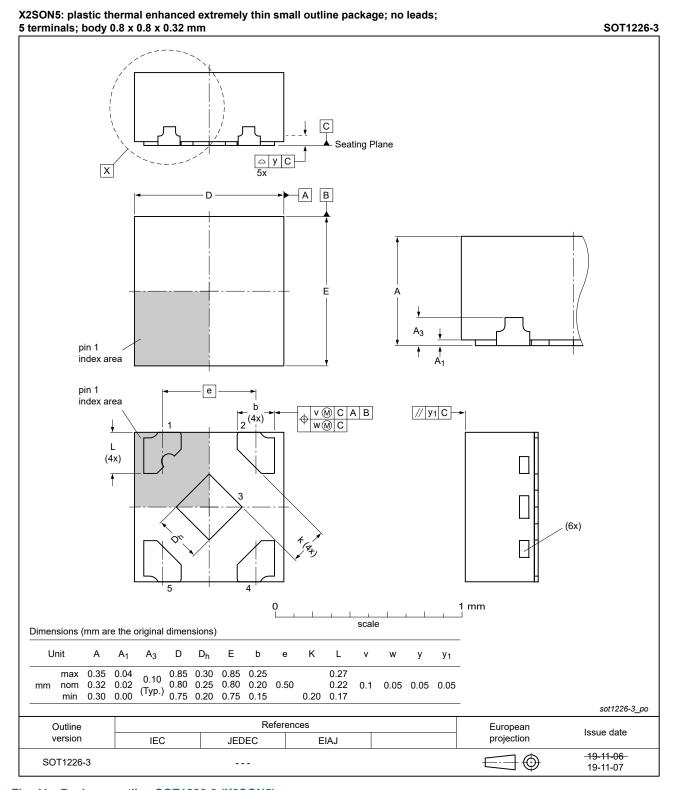


Fig. 11. Package outline SOT1226-3 (X2SON5)

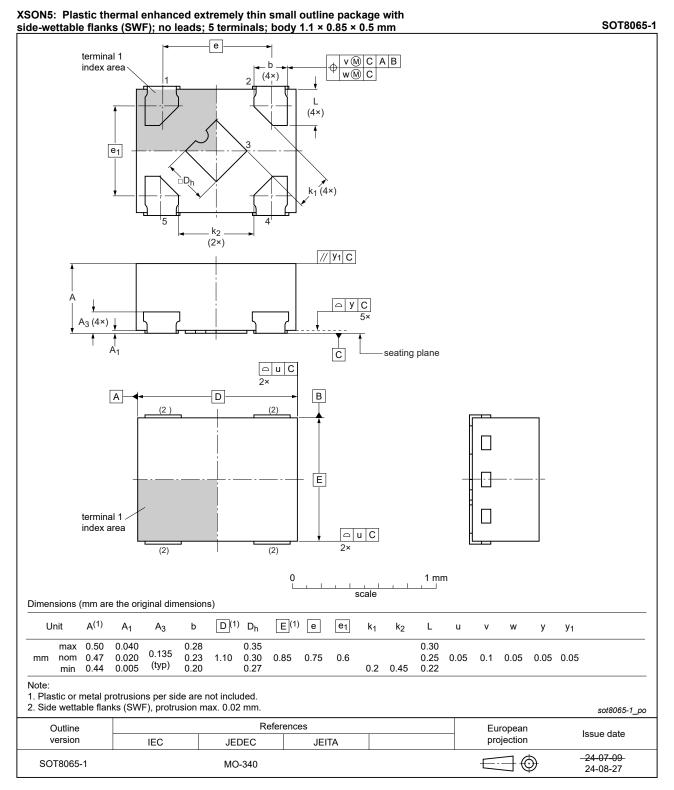


Fig. 12. Package outline SOT8065-1 (XSON5)

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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		
74LVC1G08 v.16.1	20240903	Product data sheet	-	74LVC1G08 v.16		
Modifications:	• <u>Fig. 12</u> : Add	Fig. 12: Added JEDEC reference MO-340 to SOT8065-1 package outline drawing.				
74LVC1G08 v.16	20240711	Product data sheet	-	74LVC1G08 v.15		
Modifications:		Type Hamber 14-20 Toolog (Corrosco-17/Corro) added.				
74LVC1G08 v.15	20230804	Product data sheet	-	74LVC1G08 v.14		
Modifications:	Section 2: I	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74LVC1G08 v.14	20220224	Product data sheet	-	74LVC1G08 v.13		
Modifications:	Package S	Package SOT1226 (X2SON5) changed to SOT1226-3 (X2SON5).				
74LVC1G08 v.13	20220209	Product data sheet	-	74LVC1G08 v.12		
Modifications:	 <u>Table 5</u>: De <u>Fig. 6</u>: Pacl 	Fig. 6: Package outline drawing for SOT353-1 (TSSOP5) has changed.				
74LVC1G08 v.12	20180116	Product data sheet	-	74LVC1G08 v.11		
Modifications:	guidelines of Legal texts	Legal texts have been adapted to the new company hame where appropriate.				
74LVC1G08 v.11	20161128	Product data sheet	-	74LVC1G08 v.10		
Modifications:	• <u>Table 7</u> : Th	<u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC1G08 v.10	20120629	Product data sheet	-	74LVC1G08 v.9		
Modifications:		 Added type number 74LVC1G08GX (SOT1226) Package outline drawing of SOT886 (Fig. 8) modified. 				
74LVC1G08 v.9	20111209	Product data sheet	-	74LVC1G08 v.8		
Modifications:	Legal page	Legal pages updated.				
74LVC1G08 v.8	20101019	Product data sheet	-	74LVC1G08 v.7		

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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.
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Single 2-input AND gate

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