Low-power configurable multiple function gate

Rev. 8.1 — 28 August 2023

Product data sheet

1. General description

The 74LVC1G97 is a configurable multiple function gate with Schmitt-trigger inputs. The device can be configured as any of the following logic functions MUX, AND, OR, NAND, NOR, inverter and buffer; using the 3-bit input. All inputs can be connected to V_{CC} or GND.

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.

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
- 5 V tolerant input/output for interfacing with 5 V logic
- 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)
 - JESD8B/JESD36 (2.7 V to 3.6 V).
- \pm 24 mA output drive (V_{CC} = 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
- 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

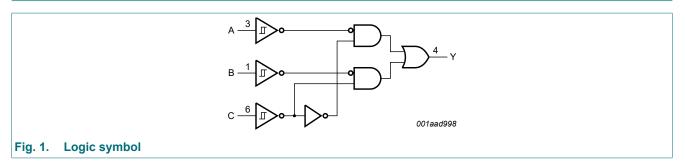
Type number	Package							
	Temperature range	Name	Description	Version				
74LVC1G97GW	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	<u>SOT363-2</u>				
74LVC1G97GV	-40 °C to +125 °C	SC-74; TSOP6	plastic surface-mounted package; 6 leads	<u>SOT457</u>				
74LVC1G97GM	-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>				
74LVC1G97GN	-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>				
74LVC1G97GS	-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>				
74LVC1G97GX	-40 °C to +125 °C	X2SON6	plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm	<u>SOT1255-2</u>				

4. Marking

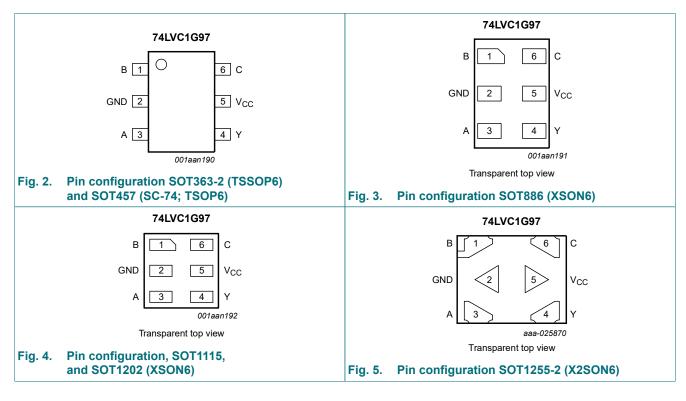
Table 2. Marking	
Type number	Marking code[1]
74LVC1G97GW	YV
74LVC1G97GV	Y97
74LVC1G97GM	YV
74LVC1G97GN	YV
74LVC1G97GS	YV
74LVC1G97GX	YV

[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	Description				
В	1	data input				
GND	2	ground (0 V)				
A	3	data input				
Y	4	data output				
V _{CC}	5	supply voltage				
С	6	data input				

7. Functional description

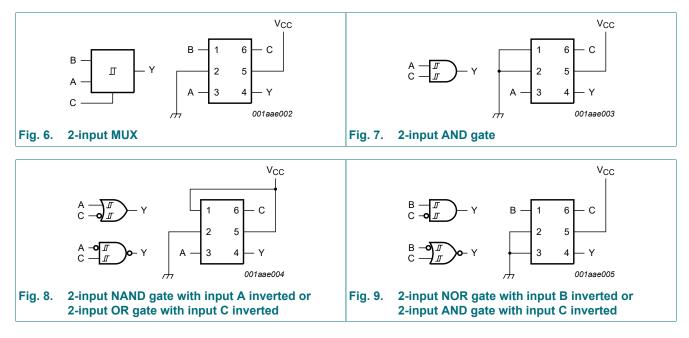
Table 4. Function table

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

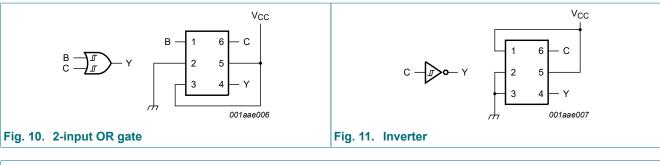
Input			Output
C	В	A	Y
L	L	L	L
L	L	Н	L
L	Н	L	Н
L	Н	Н	Н
Н	L	L	L
Н	L	Н	Н
Н	Н	L	L
Н	Н	Н	Н

7.1. Logic configurations

Table 5. Function selection table					
Logic function	Figure				
2-input MUX	see <u>Fig. 6</u>				
2-input AND	see <u>Fig. 7</u>				
2-input OR with one input inverted	see <u>Fig. 8</u>				
2-input NAND with one input inverted	see <u>Fig. 8</u>				
2-input AND with one input inverted	see <u>Fig. 9</u>				
2-input NOR with one input inverted	see <u>Fig. 9</u>				
2-input OR	see Fig. 10				
Inverter	see <u>Fig. 11</u>				
Buffer	see <u>Fig. 12</u>				



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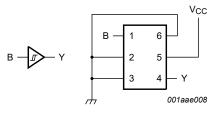


Fig. 12. Buffer

8. Limiting values

Table 6. 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	+6.5	V
		Power-down mode; V_{CC} = 0 V	[1]	-0.5	+6.5	V
lo	output current	$V_{O} = 0 V$ 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 °C to +125 °C	[2]	-	250	mW

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

[2] For SOT363-2 (TSSOP6) package: Ptot derates linearly with 3.7 mW/K above 83 °C.

For SOT457 (SC-74; TSOP6) package: P_{tot} derates linearly with 4.1 mW/K above 89 °C.

For SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: P_{tot} 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 SOT1255-2 (X2SON6) package: P_{tot} derates linearly with 3.3 mW/K above 75 °C.

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9. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Мах	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
		V _{CC} = 0 V; Power-down mode	0	-	5.5	V
T _{amb}	ambient temperature		-40	-	+125	°C

10. Static characteristics

Table 8. 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]	Мах	Min	Мах	
V _{OL}	LOW-level output	V _I = V _{CC} or GND						
	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	-	0.7	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	-	0.6	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	-	0.8	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.55	-	0.8	V
V _{OH}	HIGH-level output voltage	V _I = V _{CC} or GND						
		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
l _l	input leakage current	$V_{I} = 5.5 V \text{ or GND};$ $V_{CC} = 0 V \text{ to } 5.5 V$	-	±0.1	±1	-	±1	μA
I _{OFF}	power-off leakage current	$V_{\rm I}$ or $V_{\rm O}$ = 5.5 V; $V_{\rm CC}$ = 0 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	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 2.3 \text{ V} \text{ to } 5.5 \text{ V}$	-	5	500	-	500	μA
CI	input capacitance		-	2.5	-	-	-	pF

[1] Typical values are measured at maximum V_{CC} and T_{amb} = 25 °C.

11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 14.

Symbol	Parameter	Conditions	-40 °C to +85 °C		-40 °C to	Unit		
			Min	Typ[1]	Max	Min	Мах	
t _{pd}	propagation delay	A, B, C to Y; see <u>Fig. 13</u> [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	6.0	14.4	1.0	18.0	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	3.5	8.3	0.5	10.4	ns
		V _{CC} = 2.7 V	0.5	4.2	8.5	0.5	10.6	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	3.8	6.3	0.5	7.9	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	3.0	5.1	0.5	6.4	ns
C _{PD}	power dissipation capacitance	$V_{CC} = 3.3 \text{ V}; \text{ V}_{I} = \text{GND to } V_{CC}$ [3]	-	22	-	-	-	pF

Typical values are measured at nominal V_{CC} and at T_{amb} = 25 °C. [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 μ 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: [3]

 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;

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

11.1. Waveforms and test circuit

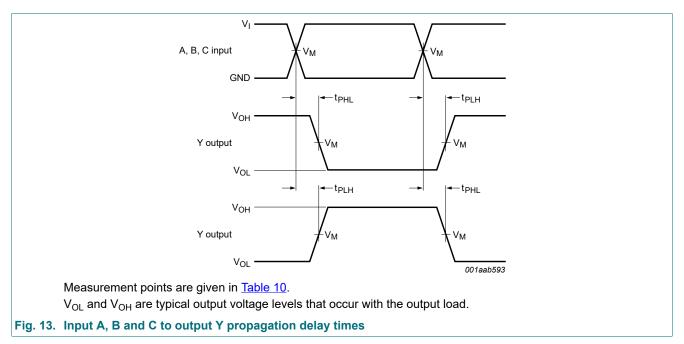
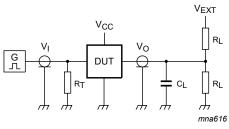


Table 10. Measurement points

Supply voltage	Input	Input	
V _{cc}	V _M	VI	V _M
1.65 V to 1.95 V	0.5 × V _{CC}	V _{CC}	0.5 × V _{CC}
2.3 V to 2.7 V	0.5 × V _{CC}	V _{CC}	$0.5 \times V_{CC}$
2.7 V	1.5 V	2.7 V	1.5 V
3.0 V to 3.6 V	1.5 V	2.7 V	1.5 V
4.5 V to 5.5 V	$0.5 \times V_{CC}$	V _{CC}	0.5 × V _{CC}



Measurement points are given in <u>Table 11</u>.

Definitions test circuit:

R_L = Load resistance;

 C_L = Load capacitance including jig and probe capacitance;

 R_T = Termination resistance should be equal to output impedance Z_0 of the pulse generator;

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

Fig. 14. Test circuit for measuring switching times

Table 11. Measurement points

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 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. Transfer characteristics

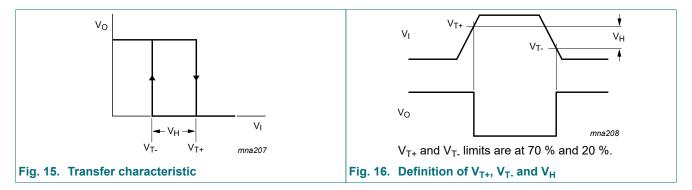
Table 12. Transfer characteristics

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

Symbol	Parameter	Conditions	-4	-40 °C to +85 °C			-40 °C to +125 °C		
			Min	Typ[1]	Max	Min	Max		
V _{T+}	positive-going threshold voltage	See <u>Fig. 15, Fig. 16,</u> Fig. 17 and <u>Fig. 18</u>							
		V _{CC} = 1.8 V	0.70	1.02	1.20	0.67	1.20	V	
		V _{CC} = 2.3 V	1.11	1.42	1.60	1.08	1.60	V	
		V _{CC} = 3.0 V, see <u>Fig. 19</u>	1.50	1.79	2.00	1.47	2.00	V	
		V _{CC} = 4.5 V	2.16	2.52	2.74	2.13	2.74	V	
		V _{CC} = 5.5 V	2.61	2.99	3.33	2.58	3.33	V	
V _T -	negative-going threshold voltage	See <u>Fig. 15, Fig. 16,</u> <u>Fig. 17</u> and <u>Fig. 18</u>							
		V _{CC} = 1.8 V	0.30	0.53	0.72	0.30	0.75	V	
		V _{CC} = 2.3 V	0.58	0.77	1.00	0.58	1.03	V	
		V _{CC} = 3.0 V, see <u>Fig. 19</u>	0.80	1.04	1.30	0.80	1.33	V	
		V _{CC} = 4.5 V	1.21	1.55	1.90	1.21	1.93	V	
		V _{CC} = 5.5 V	1.45	1.86	2.29	1.45	2.32	V	
V _H	hysteresis voltage	(V _{T+} - V _{T-}). See <u>Fig. 15, Fig. 16,</u> Fig. 17 and <u>Fig. 18</u>							
		V _{CC} = 1.8 V	0.30	0.48	0.62	0.23	0.62	V	
		V _{CC} = 2.3 V	0.40	0.64	0.80	0.34	0.80	V	
		V _{CC} = 3.0 V, see <u>Fig. 19</u>	0.50	0.75	1.00	0.44	1.00	V	
		V _{CC} = 4.5 V	0.71	0.97	1.20	0.65	1.20	V	
		V _{CC} = 5.5 V	0.71	1.13	1.40	0.65	1.40	V	

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

12.1. Waveforms transfer characteristics



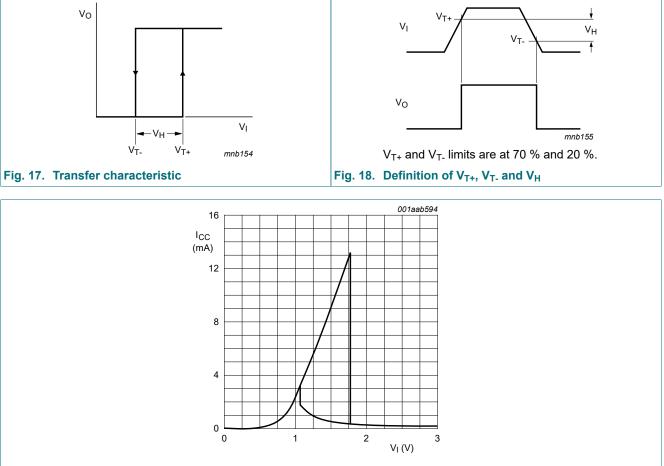


Fig. 19. Typical 74LVC1G97 transfer characteristic; V_{CC} = 3.0 V

Product data sheet

13. Package outline

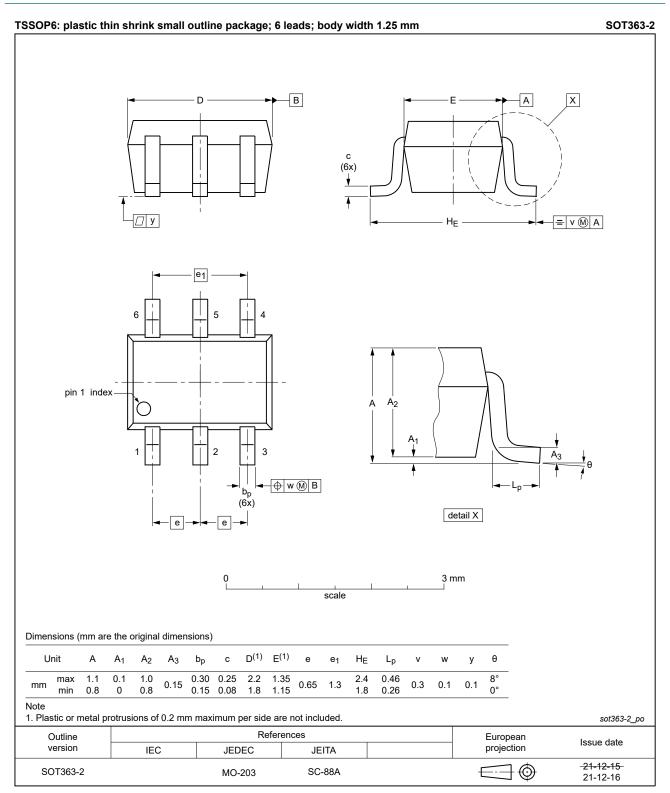


Fig. 20. Package outline SOT363-2 (TSSOP6)

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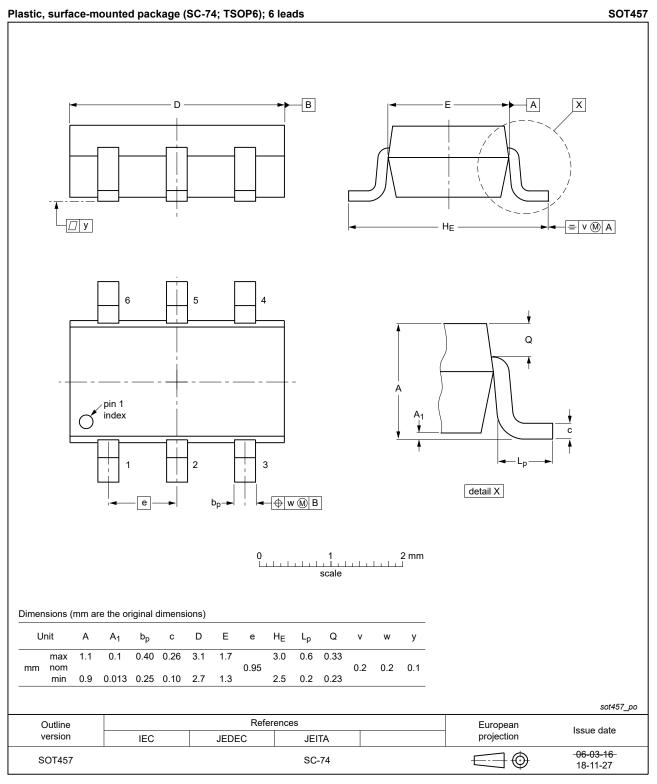


Fig. 21. Package outline SOT457 (SC-74; TSOP6)

Low-power configurable multiple function gate

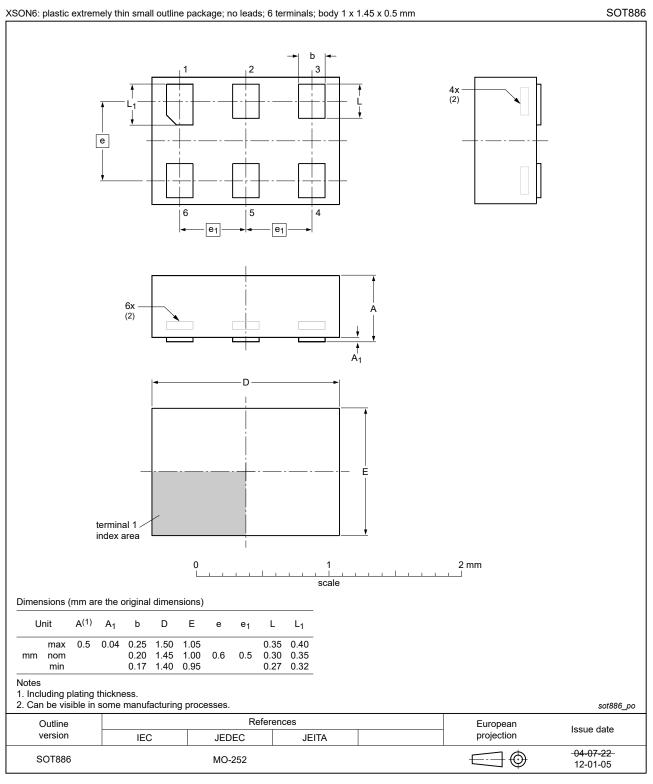
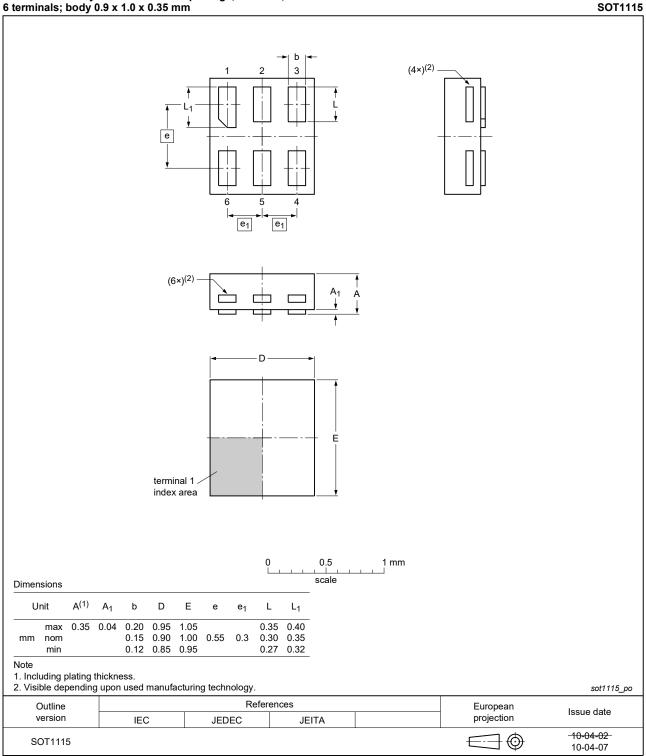


Fig. 22. Package outline SOT886 (XSON6)

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





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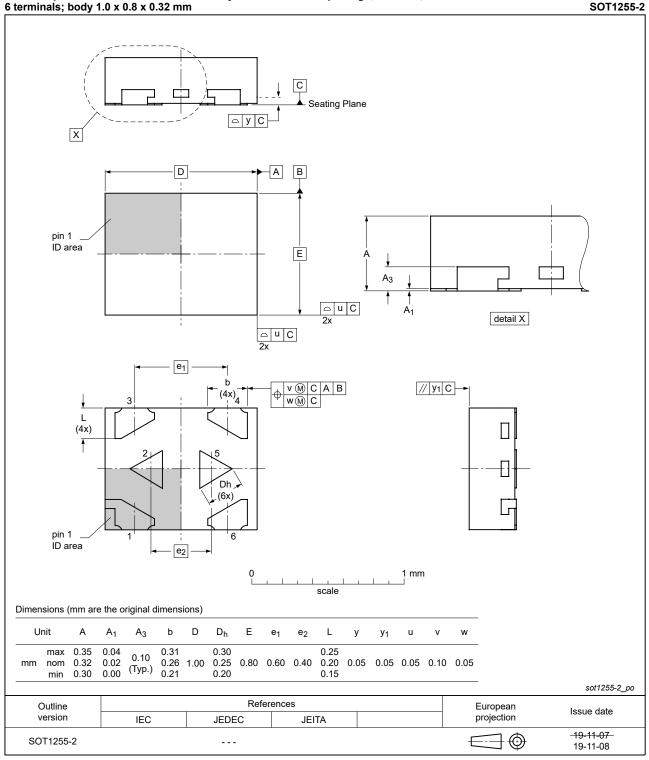
terminals;	body	1.0 x	small 1.0 x	0.35 n	nm		-		-						SOT12
				e	↑ _1 -		-e ₁ -					(4×) ⁽²]]	
				(6×)(2) —] [A ₁	↑ A ↓				
				termina index a				- D							
Dimensions								0		0.5 scale	1 mi	n			
Unit	A ⁽¹⁾	A ₁	b	D	Е	е	e ₁	L	L ₁						
max mm nom min	0.35	0.04	0.15	1.05 1.00 0.95	1.00	0.55	0.35	0.30	0.40 0.35 0.32						
Note 1. Including p 2. Visible der	lating	thickne	ess. Lused I	manufa	acturin	a techi	noloav								sot1202_r
Outline			g upon used manufacturing technology. References									Euro	opean		
version			IEC				EC			JEITA			projection		Issue date
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X2SON6: plastic thermal enhanced extremely thin small outline package; no leads;







14. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

15. Revision history

Table 14. Revision hist Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G97 v.8.1	20230828	Product data sheet	-	74LVC1G97 v.7
Modifications:	• <u>Section 2</u> : ES	SD specification updated	according to the late	est JEDEC standard.
74LVC1G97 v.7	20220124	Product data sheet	-	74LVC1G97 v.6
Modifications:	 Package out Type number SOT363 (SC 	2SON6) package change line drawing SOT457 (SC 74LVC1G97GF (SOT89 -88) package changed to ating values for P _{tot} total p	-74; TSOP6) has cl 1/XSON6) removed SOT363-2 (TSSOF	nanged. 26).
74LVC1G97 v.6	20180808	Product data sheet	-	74LVC1G97 v.5
Modifications:	of Nexperia.	f this data sheet has beer ave been adapted to the	-	ply with the identity guidelines where appropriate.
74LVC1G97 v.5	20161212	Product data sheet	-	74LVC1G97 v.4
Modifications:		maximum limits for leaka er 74LVC1G97GX (X2SOI		bly current have changed. d.
74LVC1G97 v.4	20140910	Product data sheet	-	74LVC1G97 v.3
Modifications:	Package out	line drawing of SOT886 (Fig. 22) modified.	
74LVC1G97 v.3	20111207	Product data sheet	-	74LVC1G97 v.2
741.1/04/07 0	20110309	Product data sheet	-	74LVC1G97 v.1
74LVC1G97 v.2				

16. 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".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <u>https://www.nexperia.com</u>.

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