Low-power configurable multiple function gate Rev. 3 — 7 December 2011 P

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).
- ± 24 mA output drive (V_{CC} = 3.0 V)
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Inputs accept voltages up to 5 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			
74LVC1G97GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363			
74LVC1G97GV	–40 °C to +125 °C	SC-74	plastic surface mounted package; 6 leads	SOT457			
74LVC1G97GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body $1 \times 1.45 \times 0.5$ mm	SOT886			
74LVC1G97GF	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body $1 \times 1 \times 0.5$ mm	SOT891			
74LVC1G97GN	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $0.9 \times 1.0 \times 0.35$ mm	SOT1115			
74LVC1G97GS	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $1.0 \times 1.0 \times 0.35$ mm	SOT1202			

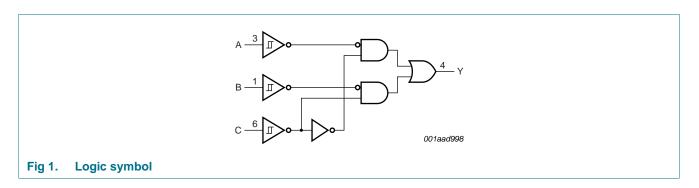
4. Marking

Table 2. Marking

Type number	Marking code ^[1]
74LVC1G97GW	YV
74LVC1G97GV	Y97
74LVC1G97GM	YV
74LVC1G97GF	YV
74LVC1G97GN	YV
74LVC1G97GS	YV

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

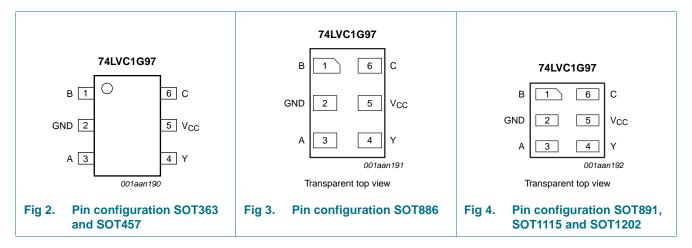
5. Functional diagram



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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 ^[1]		
Input		Output	
С	В	Α	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

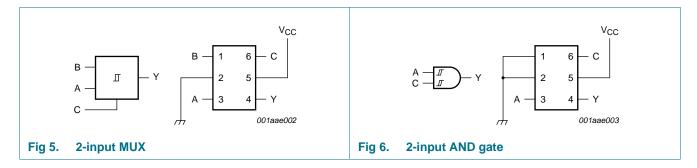
[1] H = HIGH voltage level; L = LOW voltage level.

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7.1 Logic configurations

Table 5.Function selection table

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



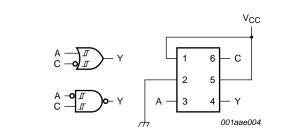


Fig 7. 2-input NAND gate with input A inverted or 2-input OR gate with input C inverted

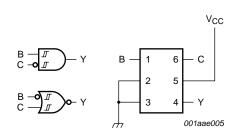
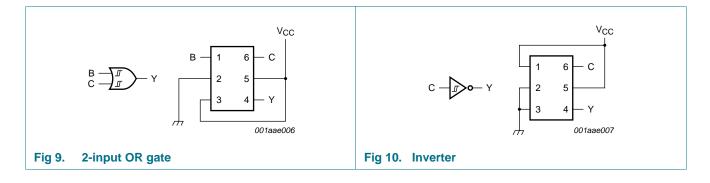


Fig 8. 2-input NOR gate with input B inverted or 2-input AND gate with input C inverted



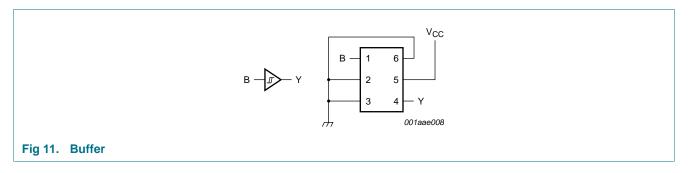
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Min

Typ

Max

Unit



Limiting values 8.

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 ₁ < 0 V		-50	-	mA
VI	input voltage		<u>[1]</u>	-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	<u>[1][2]</u>	-0.5	+6.5	V
		Power-down mode	<u>[1][2]</u>	-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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	<u>[3]</u>	-	250	mW

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

When $V_{CC} = 0 V$ (Power-down mode), the output voltage can be 5.5 V in normal operation. [2]

For SC-88 and SC-74 packages: above 87.5 °C the value of Ptot derates linearly with 4.0 mW/K. [3] For XSON6 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

Recommended operating conditions 9.

Table 7.	Recommended operating conditions			
Symbol	Parameter	Conditions		

Symbol	raiametei	Conditions	IAIIII	тур	IVIAN	Onit
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

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Table 7

Low-power configurable multiple function gate

10. Static characteristics

Table 8. Static characteristics

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

Symbol	Parameter	Conditions	-40	°C to +85	°C	-40 °C to	+125 °C	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max		
V _{OL}	LOW-level	$V_I = V_{CC}$ or GND							
	output voltage	I_{O} = 100 µA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	-	0.1	V	
		$I_0 = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.7	V	
		I_{O} = 8 mA; V_{CC} = 2.3 V	-	-	0.3	-	0.45	V	
		I_0 = 12 mA; V_{CC} = 2.7 V	-	-	0.4	-	0.6	V	
		$I_0 = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	V	
		$I_0 = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.55	-	0.8	V	
V _{ОН}	HIGH-level output voltage	$V_I = V_{CC}$ or GND							
		$I_{O} = -100 \ \mu A;$ $V_{CC} = 1.65 \ V \text{ to } 5.5 \ V$	$V_{CC} - 0.1$	-	-	$V_{CC}-0.1$	-	V	
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	0.95	-	V	
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	-	-	1.7	-	V	
		$I_0 = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	1.9	-	V	
		$I_0 = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.3	-	-	2.0	-	V	
		$I_0 = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	-	-	3.4	-	V	
lı	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±5	-	±100	μA	
OFF	power-off leakage current	$V_{I} \text{ or } V_{O} = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	±0.1	±10	-	±200	μΑ	
l _{cc}	supply current	$V_{I} = 5.5 V \text{ or GND}; I_{O} = 0 A;$ $V_{CC} = 1.65 V \text{ to } 5.5 V$	-	0.1	10	-	200	μA	
∆l _{CC}	additional supply current		-	5	500	-	5000	μA	
CI	input capacitance		-	2.5	-	-	-	pF	

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

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11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 13.

Symbol	Parameter	Conditions		–40 °C to +85 °C			-40 °C to	–40 °C to +125 °C	
				Min	Typ <mark>[1]</mark>	Max	Min	Max	
t _{pd} propagation delay		A, B, C to Y; see Figure 12	[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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		0.5	3.8	6.3	0.5	7.9	ns
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$		0.5	3.0	5.1	0.5	6.4	ns
C_{PD}	power dissipation capacitance	V_{CC} = 3.3 V; V_{I} = GND to V_{CC}	<u>[3]</u>	-	22	-	-	-	pF

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

[2] t_{pd} is the same as t_{PLH} and t_{PHL}

[3] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 f_i = input frequency in MHz;

 $f_o = output frequency in MHz;$

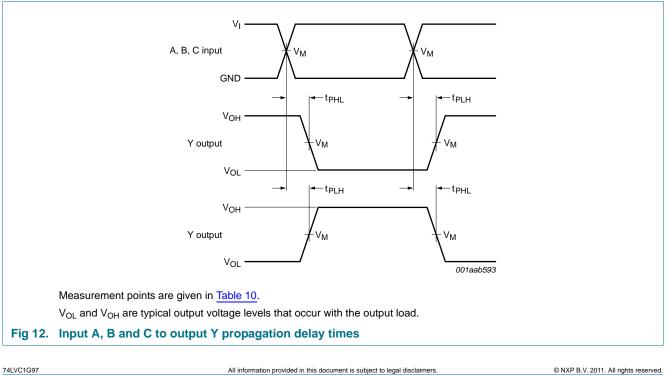
 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

12. Waveforms



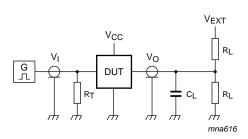
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Table 10. Measurement points						
Supply voltage Input		Output				
V _{cc}	V _M	VI	V _M			
1.65 V to 1.95 V	0.5V _{CC}	V _{CC}	0.5V _{CC}			
2.3 V to 2.7 V	0.5V _{CC}	V _{CC}	0.5V _{CC}			
2.7 V	1.5 V	2.7 V	1.5 V			
3.0 V to 3.6 V	1.5 V	2.7 V	1.5 V			
4.5 V to 5.5 V	0.5V _{CC}	V _{CC}	0.5V _{CC}			



Measurement points are given in Table 11.

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 13. Test circuit for measuring switching times

Table 11. Measurement points

Supply voltage	Input	Input			V _{EXT}
V _{CC}	VI	$t_r = t_f$	CL	RL	t _{PLH} , t _{PHL}
1.65 V to 1.95 V	V _{CC}	\leq 2.0 ns	30 pF	1 kΩ	open
2.3 to 2.7 V	V _{CC}	\leq 2.0 ns	30 pF	500 Ω	open
2.7 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open
3.0 V to 3.6 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open
4.5 V to 5.5 V	V _{CC}	\leq 2.5 ns	50 pF	500 Ω	open

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13. Transfer characteristics

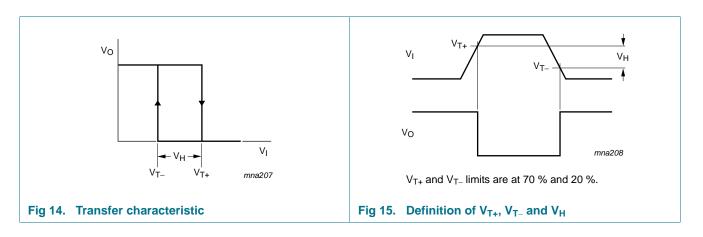
Table 12. Transfer characteristics

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	Мах	
V _{T+}	positive-going threshold voltage	see <u>Figure 14</u> , <u>Figure 15</u> , <u>Figure 16</u> and <u>Figure 17</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
		$V_{CC} = 3.0 V$	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>Figure 14, Figure 15,</u> Figure 16 and <u>Figure 17</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
		$V_{CC} = 3.0 V$	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 Figure 14, Figure 15, Figure 16 and Figure 17						
		$V_{CC} = 1.8 V$	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
		$V_{CC} = 3.0 V$	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 $T_{amb} = 25 \ ^{\circ}C$.

14. Waveforms transfer characteristics

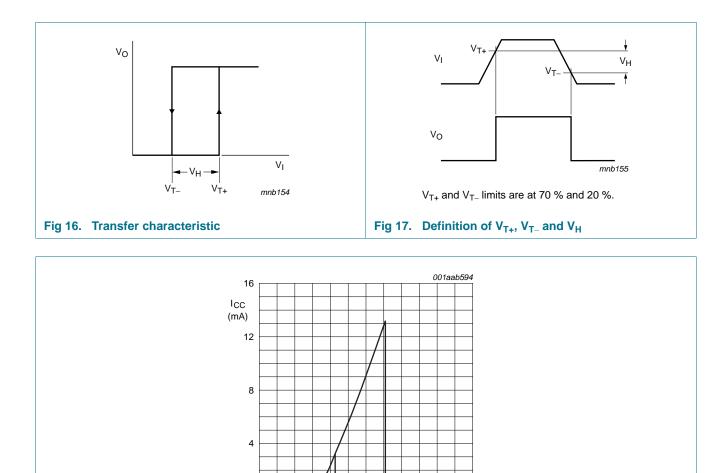


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15. Package outline

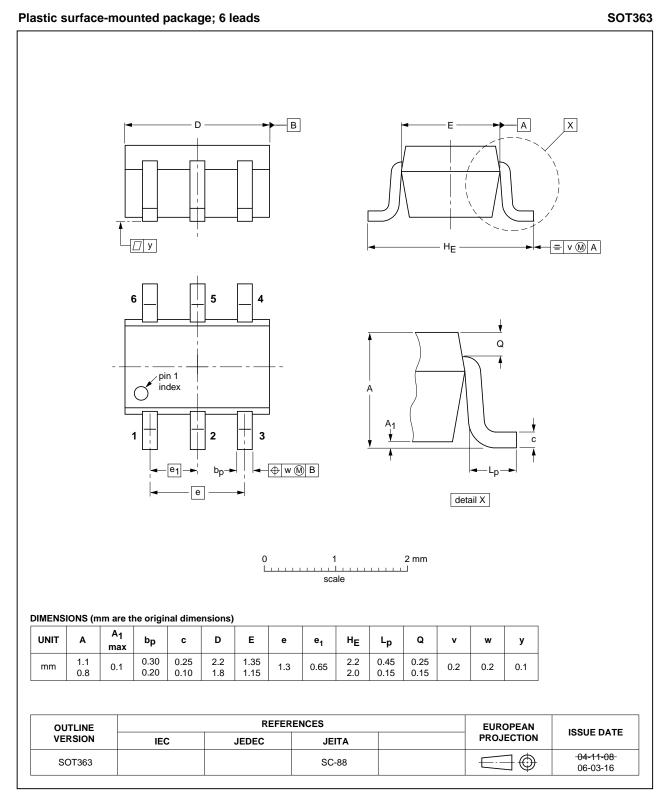


Fig 19. Package outline SOT363 (SC-88)

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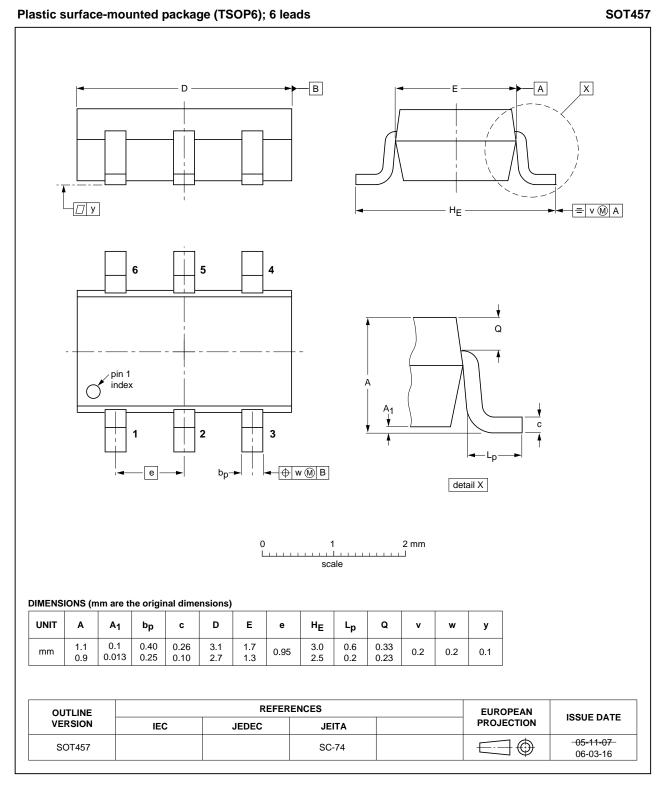
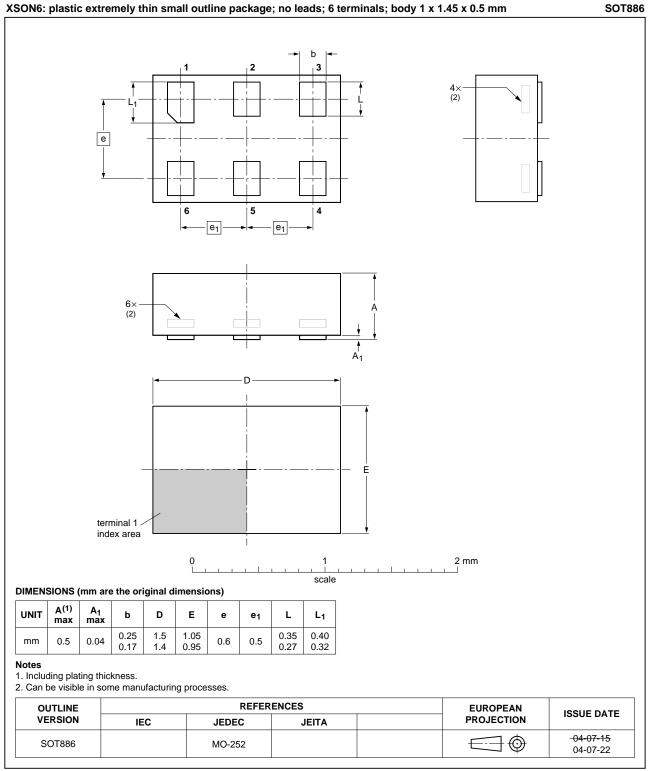


Fig 20. Package outline SOT457 (SC-74)

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XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm

Fig 21. Package outline SOT886 (XSON6)

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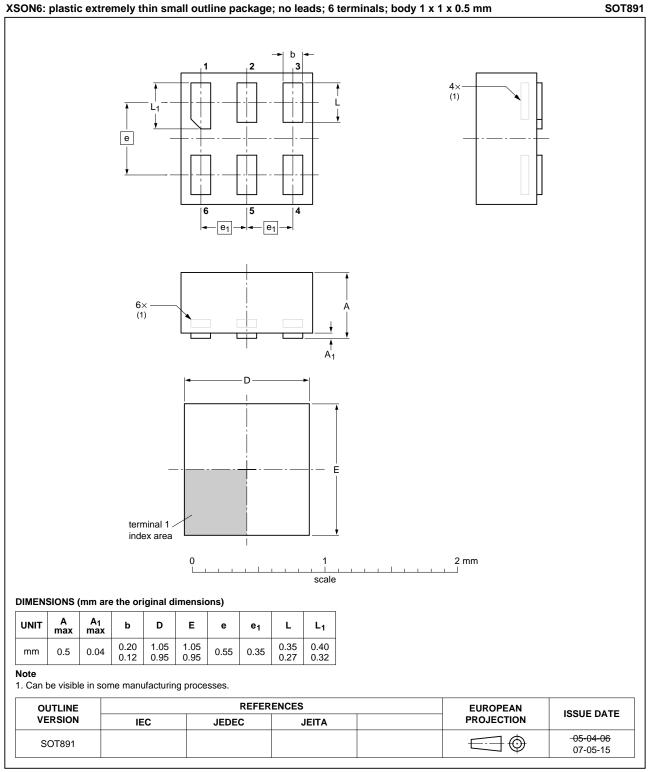
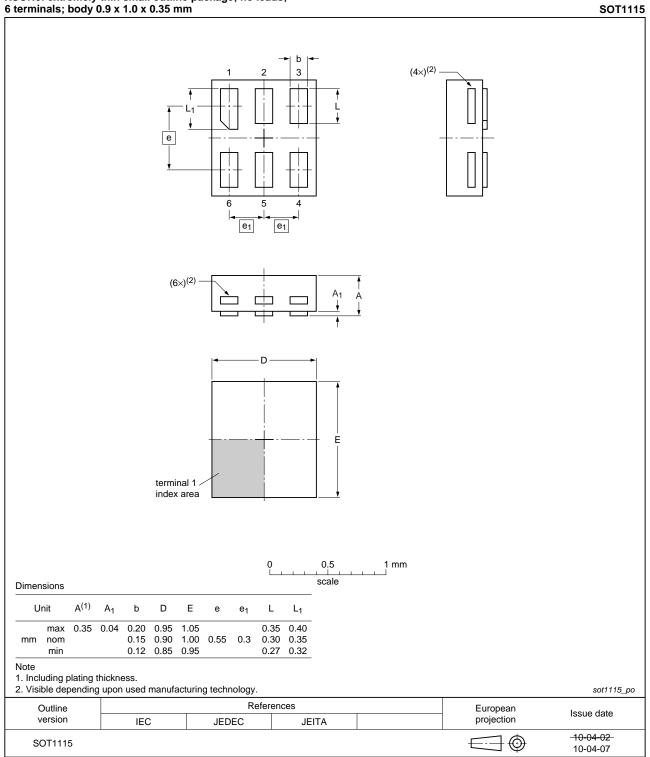


Fig 22. Package outline SOT891 (XSON6)

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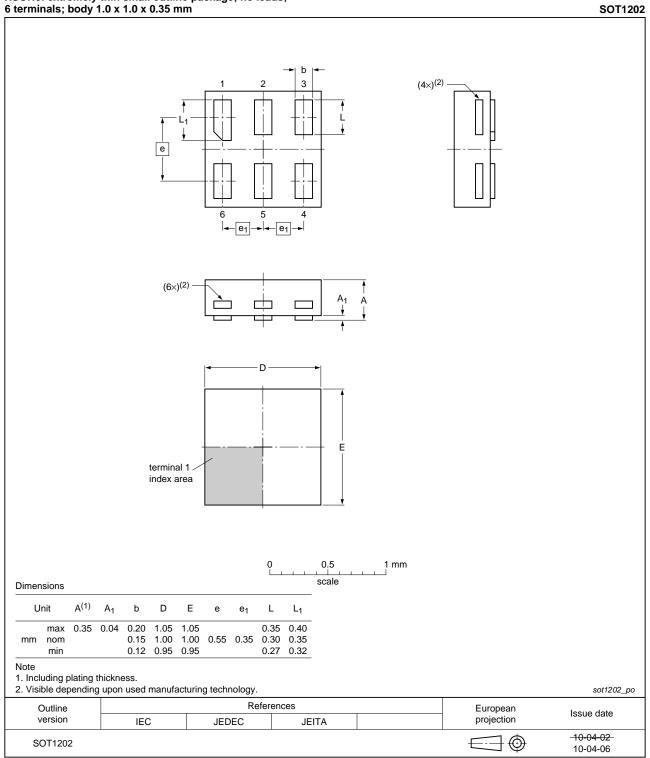


XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 23. Package outline SOT1115 (XSON6)

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

Fig 24. Package outline SOT1202 (XSON6)

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Low-power configurable multiple function gate

16. Abbreviations

Table 13.	Abbreviations
Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
TTL	Transistor-Transistor Logic
HBM	Human Body Model
ESD	ElectroStatic Discharge
MM	Machine Model
DUT	Device Under Test

17. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G97 v.3	20111207	Product data sheet	-	74LVC1G97 v.2
Modifications:	 Legal pages 	s updated.		
74LVC1G97 v.2	20110309	Product data sheet	-	74LVC1G97 v.1
74LVC1G97 v.1	20101221	Product data sheet	-	-

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18. Legal information

18.1 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.

[1] 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 URL http://www.nxp.com.

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