74AUP1G97

Low-power configurable multiple function gate Rev. 10 — 28 March 2017

Product data sheet

General description 1

The 74AUP1G97 provides configurable multiple functions. The output state is determined by eight patterns of 3-bit input. The user can choose the logic functions MUX, AND, OR, NAND, NOR, inverter and buffer. All inputs can be connected to V_{CC} or GND.

This device ensures a very low static and dynamic power consumption across the entire V_{CC} range from 0.8 V to 3.6 V.

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.

The 74AUP1G97 has Schmitt trigger inputs making it capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The inputs switch at different points for positive and negative-going signals. The difference between the positive voltage V_{T+} and the negative voltage V_{T-} is defined as the input hysteresis voltage V_H.

Features and benefits

- Wide supply voltage range from 0.8 V to 3.6 V
- High noise immunity
- ESD protection:
 - HBM JESD22-A114F exceeds 5000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Low static power consumption; $I_{CC} = 0.9 \mu A$ (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- I_{OFF} circuitry provides partial power-down mode operation
- · 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	Package							
	Temperature range	Name	Description	Version					
74AUP1G97GW	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363					
74AUP1G97GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm	SOT886					
74AUP1G97GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm	SOT891					
74AUP1G97GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm	SOT1115					
74AUP1G97GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm	SOT1202					
74AUP1G97GX	-40 °C to +125 °C	X2SON6	plastic thermal extremely thin small outline package; no leads; 6 terminals; body 1 x 0.8 x 0.35 mm	SOT1255					
74AUP1G97UK	-40 °C to +125 °C	WLCSP6	wafer level chip-scale package; 6 bumps; 0.65 x 0.44 x 0.27 mm	SOT1454-1					

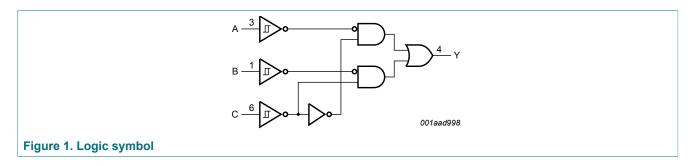
4 Marking

Table 2. Marking

Table 2. Marking	
Type number	Marking code ^[1]
74AUP1G97GW	aV
74AUP1G97GM	aV
74AUP1G97GF	aV
74AUP1G97GN	aV
74AUP1G97GS	aV
74AUP1G97GX	aV
74AUP1G97UK	7

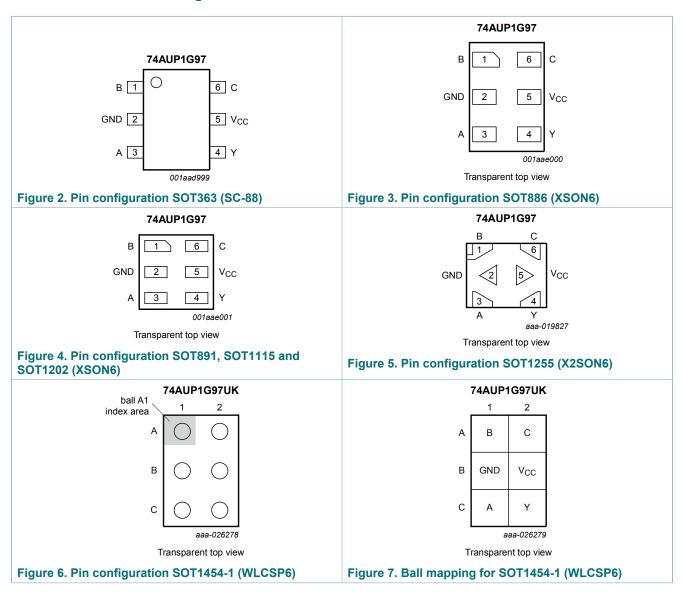
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5 Functional diagram



6 Pinning information

6.1 Pinning



6.2 Pin description

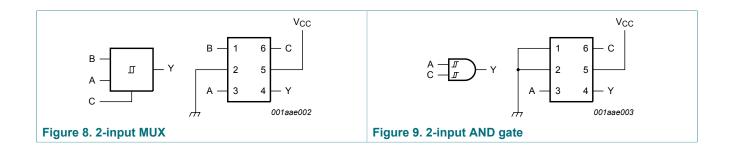
Table 3. Pin description

Symbol	Pin	Pin		
	SC88, XSON6 and X2SON6	WLCSP6		
В	1	A1	data input	
GND	2	B1	ground (0 V)	
A	3	C1	data input	
Υ	4	C2	data output	
V _{CC}	5	B2	supply voltage	
С	6	A2	data input	

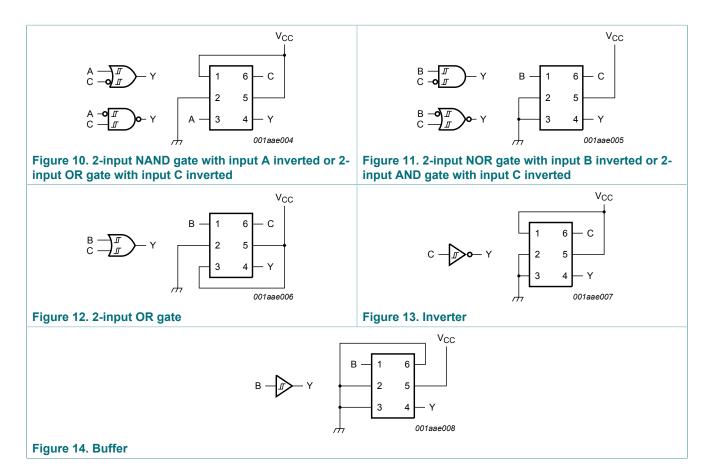
7 Logic configurations

Table 4. Function selection table

Logic function	Figure
2-input MUX	see Figure 8
2-input AND	see Figure 9
2-input OR with one input inverted	see Figure 10
2-input NAND with one input inverted	see Figure 10
2-input AND with one input inverted	see Figure 11
2-input NOR with one input inverted	see Figure 11
2-input OR	see Figure 12
Inverter	see Figure 13
Buffer	see Figure 14



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8 Functional description

Table 5. Function table [1]

Input			Output
С	В	A	Υ
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.

9 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	+4.6	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
V _O	output voltage	Active mode and Power-down [1] mode	-0.5	+4.6	V
Io	output current	V _O = 0 V to V _{CC}	-	±20	mA
I _{CC}	supply current		-	50	mA
I _{GND}	ground current		-50	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [2]	-	250	mW

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

10 Recommended operating conditions

Table 7. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		0.8	3.6	V
VI	input voltage		0	3.6	V
Vo	output voltage	Active mode	0	V _{CC}	V
		Power-down mode; V _{CC} = 0 V	0	3.6	V
T _{amb}	ambient temperature		-40	+125	°C

^[2] For SC-88 package: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K. For X2SON6 and XSON6 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K. For WLCSP6 package: above 102.5 °C the value of P_{tot} derates linearly with 5.3 mW/K.

11 Static characteristics

Table 8. Static characteristics

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 25	°C					
V _{OH}	HIGH-level output	$V_I = V_{T+} \text{ or } V_{T-}$				
	voltage	I_{O} = -20 μ A; V_{CC} = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.75V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	1.11	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.32	-	-	V
		I _O = -2.3 mA; V _{CC} = 2.3 V	2.05	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.9	-	-	V
		I _O = -2.7 mA; V _{CC} = 3.0 V	2.72	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 3.0 V	2.6	-	-	V
V _{OL}	LOW-level output	$V_I = V_{T+} \text{ or } V_{T-}$				
	voltage	I_{O} = 20 μ A; V_{CC} = 0.8 V to 3.6 V	-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.31	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.31	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.31	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.44	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.31	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.44	V
l _l	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.1	μΑ
l _{OFF}	power-off leakage current	V_{I} or $V_{O} = 0 \text{ V}$ to 3.6 V; $V_{CC} = 0 \text{ V}$	-	-	±0.2	μΑ
Δl _{OFF}	additional power-off leakage current	V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V to 0.2 V	-	-	±0.2	μΑ
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.5	μΑ
Δl _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$ [1]	-	-	40	μA
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V_I = GND or V_{CC}	-	1.1	-	pF
Co	output capacitance	V _O = GND; V _{CC} = 0 V	-	1.7	-	pF
T _{amb} = -4	0 °C to +85 °C		I			
V _{OH}	HIGH-level output	$V_I = V_{T+} \text{ or } V_{T-}$				
	voltage	I _O = -20 μA; V _{CC} = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.7V _{CC}	-	-	V

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
		I_{O} = -1.7 mA; V_{CC} = 1.4 V	1.03	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.30	-	-	V
		$I_{\rm O}$ = -2.3 mA; $V_{\rm CC}$ = 2.3 V	1.97	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.85	-	-	V
		I _O = -2.7 mA; V _{CC} = 3.0 V	2.67	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 3.0 V	2.55	-	-	V
V _{OL}	LOW-level output	$V_I = V_{T+}$ or V_{T-}				
,	voltage	I_{O} = 20 μ A; V_{CC} = 0.8 V to 3.6 V	-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.37	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.35	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.33	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.33	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.45	V
I _I	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.5	μA
I _{OFF}	power-off leakage current	V_1 or $V_0 = 0 V$ to 3.6 V; $V_{CC} = 0 V$	-	-	±0.5	μA
ΔI _{OFF}	additional power-off leakage current	V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V	-	-	±0.6	μA
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.9	μΑ
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$ [1]	-	-	50	μA
$T_{amb} = -4$	0 °C to +125 °C				'	
V _{OH}	HIGH-level output	$V_I = V_{T+}$ or V_{T-}				
	voltage	I_{O} = -20 μ A; V_{CC} = 0.8 V to 3.6 V	V _{CC} - 0.11	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.6V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	0.93	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.17	-	-	V
		I_{O} = -2.3 mA; V_{CC} = 2.3 V	1.77	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.67	-	-	V
		I_{O} = -2.7 mA; V_{CC} = 3.0 V	2.40	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 3.0 V	2.30	-	-	V
V _{OL}	LOW-level output	$V_I = V_{T+}$ or V_{T-}				
	voltage	I_{O} = 20 μ A; V_{CC} = 0.8 V to 3.6 V	-	-	0.11	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.33V _{CC}	V

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.41	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.39	V
		$I_O = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.36	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.50	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.36	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.50	V
l _l	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.75	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.75	μΑ
ΔI_{OFF}	additional power-off leakage current	V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V to 0.2 V	-	-	±0.75	μΑ
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	1.4	μΑ
ΔI_{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	1] _	-	75	μΑ

^[1] One input at V_{CC} - 0.6 V, other input at V_{CC} or GND.

12 Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 16.

Symbol Parameter		Conditions		25 °C			-40 °C to +125 °C		
			Min	Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
$C_L = 5 pF$	=								
t _{pd}	propagation delay	A, B, C to Y; see Figure 15]						
		V _{CC} = 0.8 V	-	23.0	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.8	6.6	12.6	2.5	13.0	13.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.7	7.6	2.5	8.2	8.6	ns
		V _{CC} = 1.65 V to 1.95 V	2.2	3.9	6.2	2.0	6.8	7.2	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	3.2	4.5	1.7	5.1	5.3	ns
		V _{CC} = 3.0 V to 3.6 V	1.9	2.9	3.9	1.5	4.1	4.3	ns
$C_L = 10 \text{p}$	oF		_	'			'		
t _{pd}	propagation delay	A, B, C to Y; see Figure 15]						
		V _{CC} = 0.8 V	-	26.6	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.2	7.4	14.3	2.9	14.9	15.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.6	5.3	8.7	2.8	9.4	9.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.5	4.5	7.0	2.3	7.8	8.2	ns

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Symbol	Parameter	Conditions		25 °C		-40 °C to +125 °C			Unit
			Min	Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
		V _{CC} = 2.3 V to 2.7 V	2.4	3.7	5.2	2.1	5.9	6.1	ns
		V _{CC} = 3.0 V to 3.6 V	2.3	3.4	4.6	1.9	4.9	5.1	ns
$C_L = 15 p$	F				'				,
t _{pd}	propagation delay	A, B, C to Y; see Figure 15							
		V _{CC} = 0.8 V	-	30.1	-	-	-	_	ns
		V _{CC} = 1.1 V to 1.3 V	3.6	8.2	16.0	3.2	16.7	17.0	ns
		V _{CC} = 1.4 V to 1.6 V	2.9	5.9	9.6	3.1	10.4	10.9	ns
		V _{CC} = 1.65 V to 1.95 V	2.8	5.0	7.8	2.5	8.7	9.1	ns
		V _{CC} = 2.3 V to 2.7 V	2.7	4.2	5.8	2.4	6.5	6.9	ns
		V _{CC} = 3.0 V to 3.6 V	2.5	3.8	5.1	2.2	5.5	5.7	ns
$C_L = 30 p$	F				I.				
t _{pd}	propagation delay	A, B, C to Y; see Figure 15 [2]							
		V _{CC} = 0.8 V	-	38.3	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.6	10.5	20.9	4.0	21.8	22.2	ns
		V _{CC} = 1.4 V to 1.6 V	3.7	7.4	12.2	3.8	13.3	14.0	ns
		V _{CC} = 1.65 V to 1.95 V	3.5	6.3	9.9	3.2	11.1	11.8	ns
		V _{CC} = 2.3 V to 2.7 V	3.4	5.3	7.4	3.1	8.3	8.8	ns
		V _{CC} = 3.0 V to 3.6 V	3.2	4.9	6.6	2.8	7.0	7.4	ns
$C_L = 5 pF$	F, 10 pF, 15 pF and 30) pF					'		
C _{PD}	power dissipation	f_i = 1 MHz; V_I = GND to V_{CC} [3]							
	capacitance	V _{CC} = 0.8 V	-	2.6	-	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.8	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	2.9	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	3.1	-	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.7	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.3	-	-	-	-	pF

f_i = input frequency in MHz;

 f_o = output frequency in MHz;

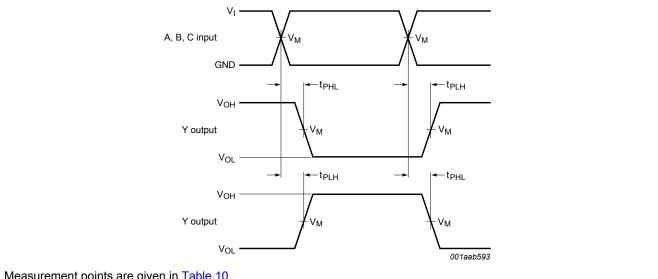
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching; $\Sigma(C_L \times V_{CC}^2 \times f_0)$ = sum of outputs.

^[1] All typical values are measured at nominal V_{CC} .
[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 μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_0) \text{ where:}$

12.1 Waveforms and test circuit



Measurement points are given in Table 10.

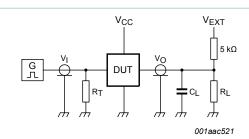
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Figure 15. Input A, B and C to output Y propagation delay times

Table 10. Measurement points

Supply voltage	Output	Input		
V _{CC}	V _M	V _M	VI	$t_r = t_f$
0.8 V to 3.6 V	0.5V _{CC}	0.5V _{CC}	V _{CC}	≤ 3.0 ns

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Test data is given in Table 11.

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_0 of the pulse generator.

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

Figure 16. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Load	V _{EXT}			
V _{CC}	CL	R _L [1]	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
0.8 V to 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 kΩ or 1 MΩ	open	GND	2V _{CC}

[1] For measuring enable and disable times R_L = 5 k Ω , for measuring propagation delays, setup and hold times and pulse width R_L = 1 M Ω .

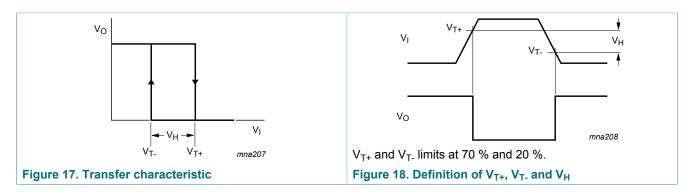
12.2 Transfer characteristics

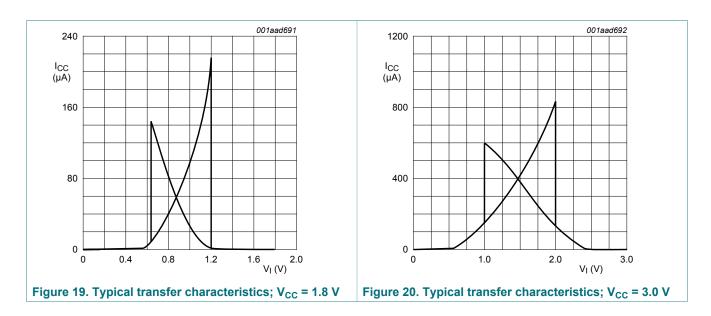
Table 12. Transfer characteristics

Voltages are referenced to GND (ground = 0 V; for test circuit see Figure 16.

Symbol Parameter		Conditions	25 °C		-40 °C to +125 °C			Unit	
			Min	Тур	Max	Min	Max (85 °C)	Max (125 °C)	
V_{T+}	positive-going	see Figure 17 and Figure 18							
	threshold voltage	V _{CC} = 0.8 V	0.30	-	0.60	0.30	0.60	0.62	V
		V _{CC} = 1.1 V	0.53	-	0.90	0.53	0.90	0.92	V
		V _{CC} = 1.4 V	0.74	-	1.11	0.74	1.11	1.13	V
		V _{CC} = 1.65 V	0.91	-	1.29	0.91	1.29	1.31	V
		V _{CC} = 2.3 V	1.37	_	1.77	1.37	1.77	1.80	V
		V _{CC} = 3.0 V	1.88	_	2.29	1.88	2.29	2.32	V
V _{T-}	negative-going threshold voltage	see Figure 17 and Figure 18							
		V _{CC} = 0.8 V	0.10	_	0.60	0.10	0.60	0.60	V
		V _{CC} = 1.1 V	0.26	-	0.65	0.26	0.65	0.65	V
		V _{CC} = 1.4 V	0.39	-	0.75	0.39	0.75	0.75	V
		V _{CC} = 1.65 V	0.47	-	0.84	0.47	0.84	0.84	V
		V _{CC} = 2.3 V	0.69	-	1.04	0.69	1.04	1.04	V
		V _{CC} = 3.0 V	0.88	-	1.24	0.88	1.24	1.24	V
	hysteresis voltage	(V _{T+} - V _{T-}); see <u>Figure 17</u> and <u>Figure 18</u> , <u>Figure 19</u> and <u>Figure 20</u>							
		V _{CC} = 0.8 V	0.07	-	0.50	0.07	0.50	0.50	V
		V _{CC} = 1.1 V	0.08	-	0.46	0.08	0.46	0.46	V
		V _{CC} = 1.4 V	0.18	-	0.56	0.18	0.56	0.56	V
		V _{CC} = 1.65 V	0.27	-	0.66	0.27	0.66	0.66	V
		V _{CC} = 2.3 V	0.53	-	0.92	0.53	0.92	0.92	V
		V _{CC} = 3.0 V	0.79	-	1.31	0.79	1.31	1.31	V

12.3 Waveforms transfer characteristics





13 Package outline

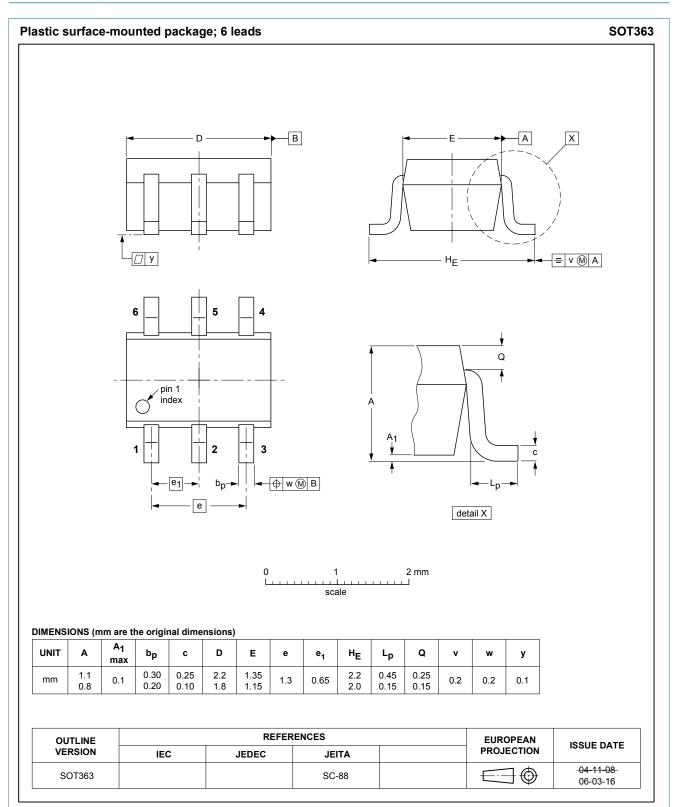


Figure 21. Package outline SOT363 (SC-88)

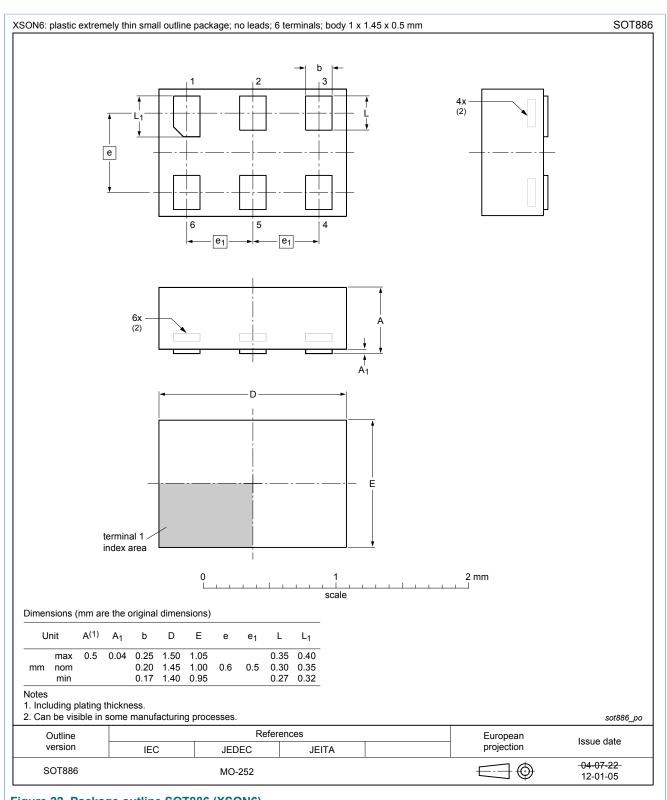


Figure 22. Package outline SOT886 (XSON6)

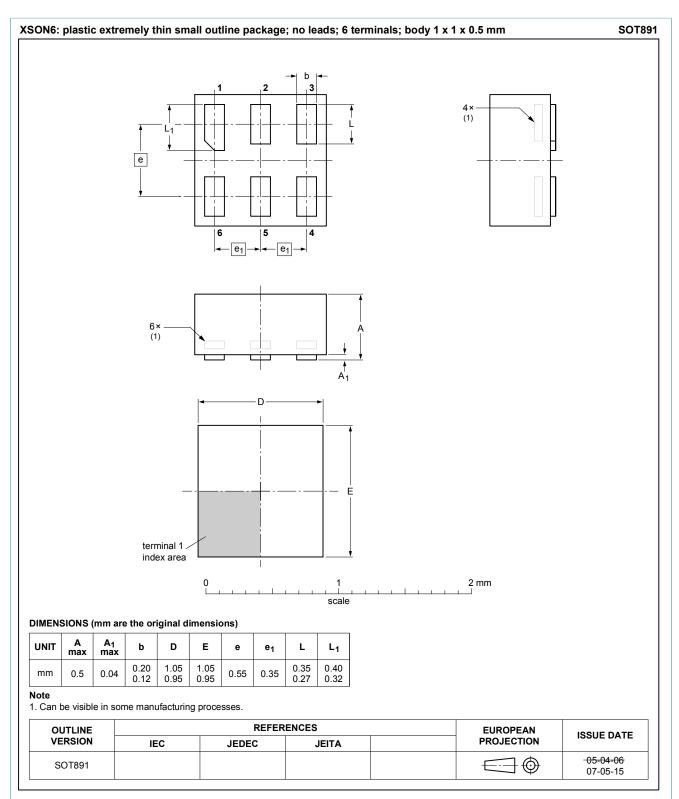


Figure 23. Package outline SOT891 (XSON6)

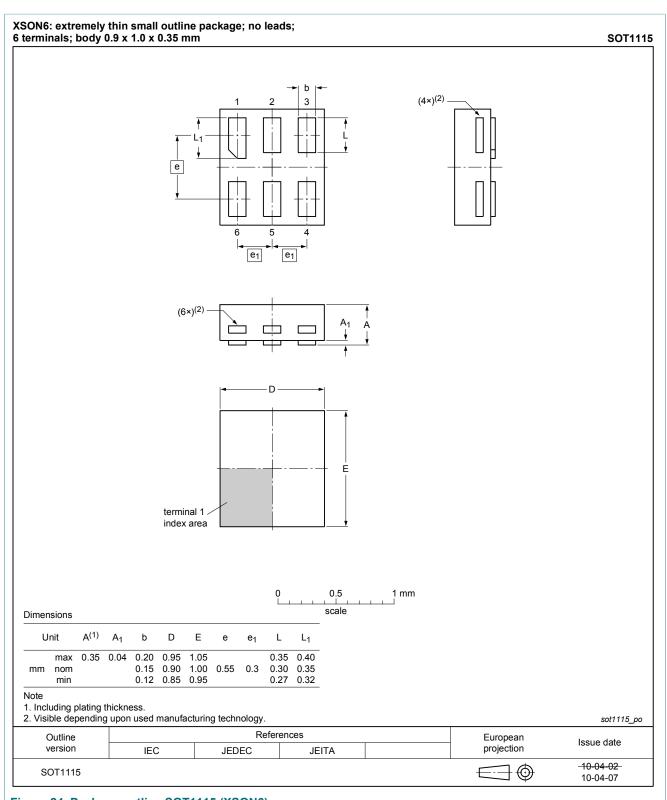


Figure 24. Package outline SOT1115 (XSON6)

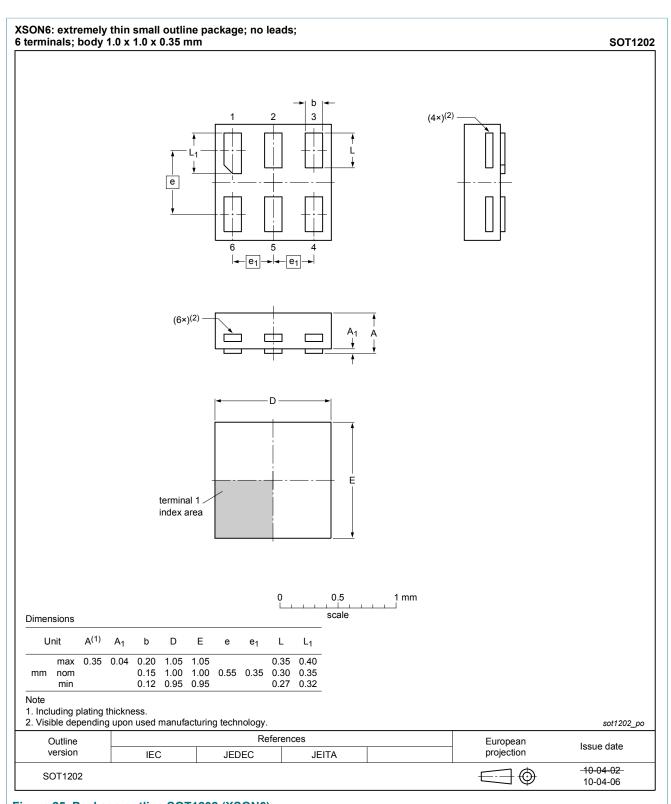


Figure 25. Package outline SOT1202 (XSON6)

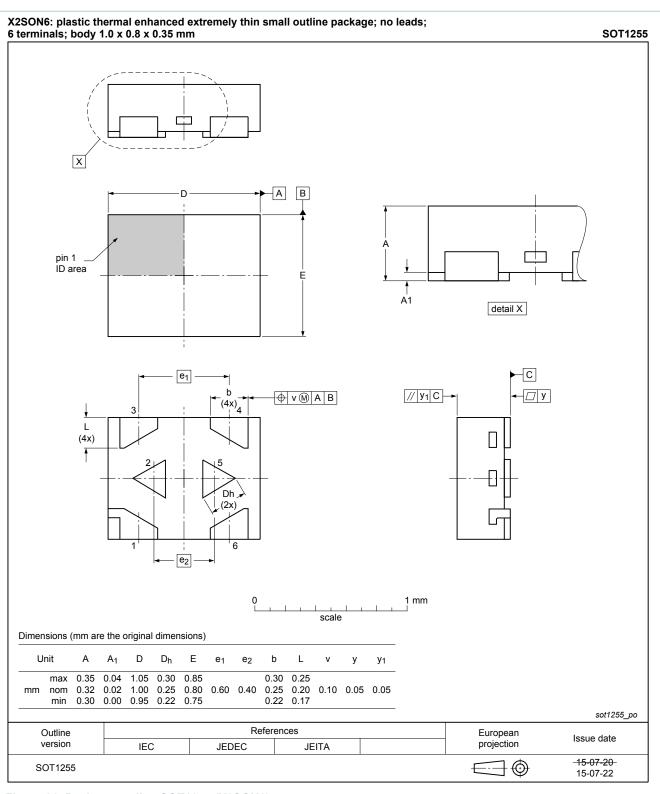
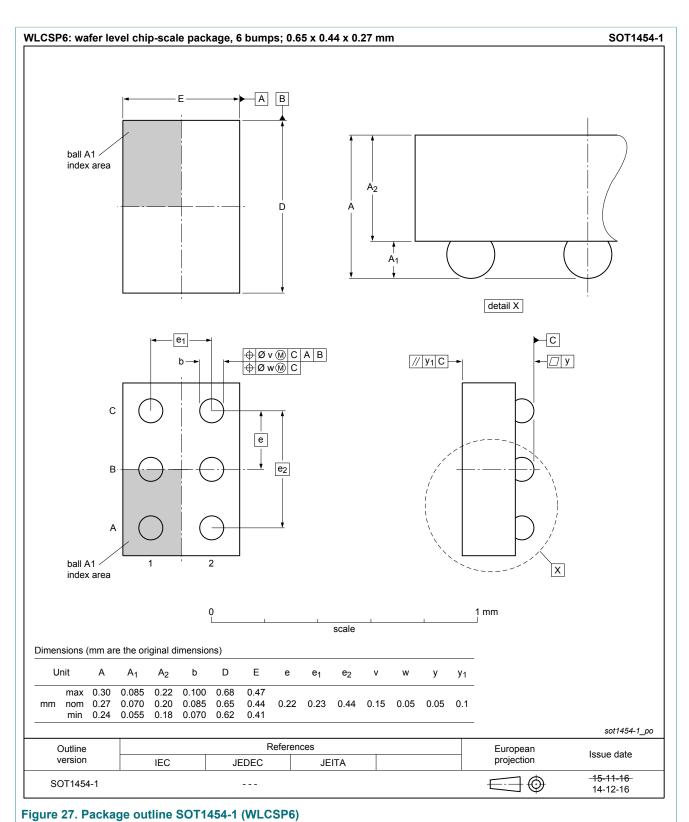


Figure 26. Package outline SOT1255 (X2SON6)



Low-power configurable multiple function gate

14 Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
Document ID	iverease nate	Data Silect Status	Change notice	Superseues
74AUP1G97 v.10	20170328	Product data sheet	-	74AUP1G97 v.9
Modifications:	 Added type num 	ber 74AUP1G97UK (SOT145	4-1/WLCSP6).	
74AUP1G97 v.9	20150917	Product data sheet	-	74AUP1G97 v.8
Modifications:	Added type num	ber 74AUP1G97GX (SOT125	5/X2SON6).	,
74AUP1G97 v.8	20120815	Product data sheet	-	74AUP1G97 v.7
Modifications:	Package outline	drawing of SOT886 (Figure 22	2) modified.	,
74AUP1G97 v.7	20111128	Product data sheet	-	74AUP1G97 v.6
74AUP1G97 v.6	20110110	Product data sheet	-	74AUP1G97 v.5
74AUP1G97 v.5	20101020	Product data sheet	-	74AUP1G97 v.4
74AUP1G97 v.4	20090623	Product data sheet	-	74AUP1G97 v.3
74AUP1G97 v.3	20090518	Product data sheet	-	74AUP1G97 v.2
74AUP1G97 v.2	20090327	Product data sheet	-	74AUP1G97 v.1
74AUP1G97 v.1	20061107	Product data sheet	-	-

14.1 Abbreviations

Table 14. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model

15 Legal information

15.1 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.

- Please consult the most recently issued document before initiating or completing a design.
- The term 'short data sheet' is explained in section "Definitions". [2] [3]
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