74AUP1T58

Low-power configurable gate with voltage-level translator Rev. 5 — 15 August 2012 Product data s

Product data sheet

General description 1.

The 74AUP1T58 provides low-power, low-voltage configurable logic gate functions. The output state is determined by eight patterns of 3-bit input. The user can choose the logic functions AND, OR, NAND, NOR, XOR, 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 2.3 V to 3.6 V.

The 74AUP1T58 is designed for logic-level translation applications with input switching levels that accept 1.8 V low-voltage CMOS signals, while operating from either a single 2.5 V or 3.3 V supply voltage.

The wide supply voltage range ensures normal operation as battery voltage drops from 3.6 V to 2.3 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.

Schmitt trigger inputs make the circuit tolerant to slower input rise and fall times across the entire V_{CC} range.

Features and benefits 2.

- Wide supply voltage range from 2.3 V to 3.6 V
- High noise immunity
- ESD protection:
 - HBM JESD22-A114F Class 3A exceeds 5000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Low static power consumption; $I_{CC} = 1.5 \mu A$ (maximum)
- Latch-up performance exceeds 100 mA per JESD 78B 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



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3. Ordering information

Table 1. Ordering information

Type number	Package								
	Temperature range	Name	Description	Version					
74AUP1T58GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363					
74AUP1T58GM	–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					
74AUP1T58GF	–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					
74AUP1T58GN	–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					
74AUP1T58GS	–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					

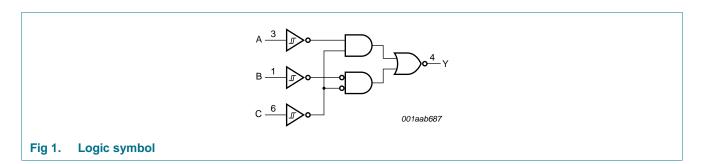
4. Marking

Table 2. Marking

Type number	Marking code[1]
74AUP1T58GW	a8
74AUP1T58GM	a8
74AUP1T58GF	a8
74AUP1T58GN	a8
74AUP1T58GS	a8

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

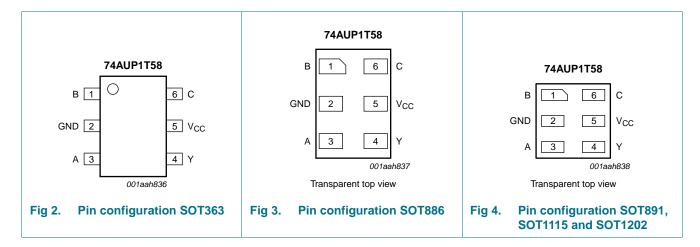
5. Functional diagram



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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
Υ	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	Υ
L	L	L	L
L	L	Н	Н
L	Н	L	L
L	Н	Н	Н
Н	L	L	Н
Н	L	Н	Н
Н	Н	L	L
Н	Н	Н	L

^[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 NAND	see Figure 5
2-input NAND with both inputs inverted	see Figure 8
2-input AND with inverted input	see Figure 6 and 7
2-input NOR with inverted input	see Figure 6 and 7
2-input OR	see Figure 8
2-input OR with both inputs inverted	see Figure 5
2-input XOR	see Figure 9
Buffer	see Figure 10
Inverter	see Figure 11

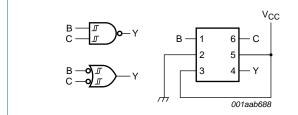


Fig 5. 2-input NAND gate or 2-input OR gate with both inputs inverted

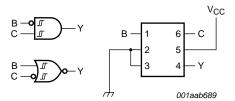


Fig 6. 2-input AND gate with input B inverted or 2-input NOR gate with inverted C input

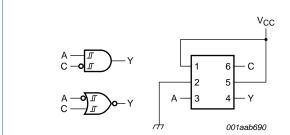


Fig 7. 2-input AND gate with input C inverted or 2-input NOR gate with inverted A input

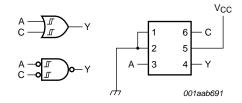
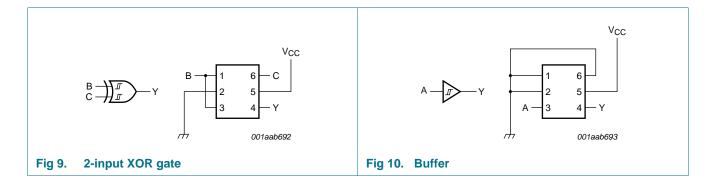
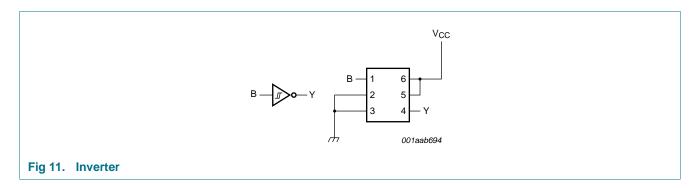


Fig 8. 2-input OR gate or 2-input NAND gate with both inputs inverted



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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	+4.6	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage		[<u>1</u>] -0.5	+4.6	V
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
Vo	output voltage	Active mode and Power-down mode	[<u>1</u>] -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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	[2] _	250	mW

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

9. Recommended operating conditions

Table 7. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	supply voltage		2.3	3.6	V
V _I	input voltage		0	3.6	V
Vo	output voltage	Active mode	0	V_{CC}	V
		Power-down mode; $V_{CC} = 0 \text{ V}$	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 XSON6 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

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10. 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} = 2	5 °C					
V_{T+}	positive-going threshold	V _{CC} = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.75	-	1.16	V
V_{T-}	negative-going threshold	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0.35	-	0.60	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.50	-	0.85	V
V _H	hysteresis voltage	$(V_H = V_{T+} - V_{T-})$				
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0.23	-	0.60	V
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	0.25	-	0.56	V
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_O = -20 \mu A$; $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	V _{CC} - 0.1	-	-	V
		$I_{O} = -2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	2.05	-	-	V
		$I_{O} = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	-	-	V
		$I_{O} = -2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.72	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.6	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_O = 20 \mu A$; $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	-	-	0.10	V
		$I_O = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.31	V
		$I_O = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.44	V
		$I_O = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.31	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	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
I _{OFF}	power-off leakage current	V_I or $V_O = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.1	μΑ
ΔI_{OFF}	additional power-off leakage current	V_1 or $V_0 = 0$ V to 3.6 V; $V_{CC} = 0$ V to 0.2 V	-	-	±0.2	μΑ
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	-	-	1.2	μΑ
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V_I = GND or V_{CC}	-	0.8	-	pF
Co	output capacitance	$V_O = GND$; $V_{CC} = 0 V$	-	1.7	-	pF
T _{amb} = -	40 °C to +85 °C					
V_{T+}	positive-going threshold	V _{CC} = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.75	-	1.19	V
V_{T-}	negative-going threshold	V_{CC} = 2.3 V to 2.7 V	0.35	-	0.60	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.50	-	0.85	V
V _H	hysteresis voltage	$(V_H = V_{T+} - V_{T-})$				
		V_{CC} = 2.3 V to 2.7 V	0.10	-	0.60	V
		V _{CC} = 3.0 V to 3.6 V	0.15	-	0.56	V

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Table 8. Static characteristics ...continued
At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_{O} = -20 \mu A$; $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	V _{CC} - 0.1	-	-	V
		$I_{O} = -2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.97	-	-	V
		$I_O = -3.1 \text{ mA}$; $V_{CC} = 2.3 \text{ V}$	1.85	-	-	V
		$I_O = -2.7 \text{ mA}$; $V_{CC} = 3.0 \text{ V}$	2.67	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.55	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_O = 20 \mu A$; $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	-	-	0.1	V
		$I_O = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.33	V
		$I_O = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.45	V
		$I_O = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.33	V
		$I_{O} = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.45	V
lı	input leakage current	$V_{I} = GND \text{ to } 3.6 \text{ V}; V_{CC} = 0 \text{ V to } 3.6 \text{ V}$	-	-	±0.5	μΑ
	<u> </u>	V_1 or $V_0 = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	_	±0.5	μΑ
	<u> </u>	V_1 or $V_0 = 0$ V to 3.6 V;		_	±0.5	μΑ
∆i0FF	leakage current	$V_{CC} = 0 \text{ V to } 0.2 \text{ V}$			±0.0	μπ
lcc	supply current	$V_1 = GND \text{ or } V_{CC}; I_0 = 0 \text{ A};$ $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	-	-	1.5	μΑ
Δl _{CC}	additional supply current	V_{CC} = 2.3 V to 2.7 V; I_{O} = 0 A	[1] -	-	4	μΑ
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } I_{O} = 0 \text{ A}$	[2] _	-	12	μΑ
T _{amb} = -	40 °C to +125 °C					
V _{T+}	positive-going threshold	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0.60	-	1.10	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.75	-	1.19	V
V_{T-}	positive-going threshold voltage $V_{CC} = 2.3 \text{ V to}$ regative-going threshold $V_{CC} = 3.0 \text{ V to}$ $V_{CC} = 3.0 \text{ V to}$ $V_{CC} = 2.3 \text{ V to}$	V _{CC} = 2.3 V to 2.7 V	0.33	-	0.64	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.46	-	0.85	V
V _H	hysteresis voltage	$(V_{H} = V_{T+} - V_{T-})$				
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0.10	-	0.60	V
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	0.15	-	0.56	V
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_O = -20 \mu A$; $V_{CC} = 2.3 \text{ V to } 3.6 \text{ V}$	V _{CC} - 0.11	-	-	V
		$I_{O} = -2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.77	-	-	V
		$I_O = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.67	-	-	V
		$I_{O} = -2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.40	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.30	-	-	V
Vol	LOW-level output voltage	$V_{I} = V_{T+}$ or V_{T-}				
·OL		$I_O = 20 \mu\text{A}; V_{CC} = 2.3 \text{V to } 3.6 \text{V}$		_	0.11	V
		$I_{O} = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$			0.36	V
		$I_O = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$		_	0.50	V
		$I_0 = 3.7 \text{ mA}$; $V_{CC} = 2.3 \text{ V}$			0.36	V
		$I_0 = 2.7 \text{ mA}, V_{CC} = 3.0 \text{ V}$ $I_0 = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$			0.50	V
1.	input leakage current	$V_1 = \text{GND to } 3.6 \text{ V}; V_{CC} = 0 \text{ V to } 3.6 \text{ V}$				
	input leakage culterit		-	-	±0.75	μΑ
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 Table 8.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
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_1 or $V_0 = 0$ 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} = 2.3 V to 3.6 V	-	-	3.5	μΑ
ΔI_{CC}	additional supply current	V_{CC} = 2.3 V to 2.7 V; I_O = 0 A	<u>[1]</u> -	-	7	μΑ
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } I_{O} = 0 \text{ A}$	[2] _	-	22	μΑ

^[1] One input at 0.3 V or 1.1 V, other input at V_{CC} or GND.

11. Dynamic characteristics

Table 9. Dynamic characteristics

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

Symbol	Parameter	Conditions		25 °C			-40 °C to +125 °C			Unit
				Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
$V_{CC} = 2.3$	3 V to 2.7 V; V _I = 1.6	55 V to 1.95 V								
t _{pd}	propagation delay	A, B, C to Y; see Figure 12	[2]							
		C _L = 5 pF		2.1	3.6	5.6	0.5	6.8	7.5	ns
		C _L = 10 pF		2.6	4.1	6.2	1.0	7.9	8.7	ns
		C _L = 15 pF		3.0	4.6	6.8	1.0	8.7	9.6	ns
		$C_{L} = 30 \text{ pF}$		4.0	5.8	8.1	1.5	10.8	11.9	ns
$V_{CC} = 2.3$	3 V to 2.7 V; V _I = 2.3	3 V to 2.7 V								
t _{pd}	propagation delay	A, B, C to Y; see Figure 12	[2]							
		C _L = 5 pF		1.7	3.4	5.5	0.5	6.0	6.6	ns
		C _L = 10 pF		2.2	4.0	6.2	1.0	7.1	7.9	ns
		C _L = 15 pF		2.6	4.5	6.8	1.0	7.9	8.7	ns
		$C_L = 30 \text{ pF}$		3.5	5.6	8.1	1.5	10.0	11.0	ns
V _{CC} = 2.	3 V to 2.7 V; V _I = 3.0) V to 3.6 V								
t _{pd}	propagation delay	A, B, C to Y; see Figure 12	[2]							
		$C_L = 5 pF$		1.4	3.2	5.1	0.5	5.5	6.1	ns
		C _L = 10 pF		1.9	3.7	5.8	1.0	6.5	7.2	ns
		C _L = 15 pF		2.2	4.2	6.3	1.0	7.4	8.2	ns
		$C_L = 30 \text{ pF}$		3.2	5.4	7.7	1.5	9.5	10.5	ns
$V_{CC} = 3$.	0 V to 3.6 V; V _I = 1.6	65 V to 1.95 V								
t _{pd}	propagation delay	A, B, C to Y; see Figure 12	[2]							
		C _L = 5 pF		2.0	2.9	4.0	0.5	8.0	8.8	ns
		C _L = 10 pF		2.4	3.5	4.7	1.0	8.5	9.4	ns
		C _L = 15 pF		2.8	3.9	5.3	1.0	9.1	10.1	ns
		C _L = 30 pF		3.6	5.1	6.7	1.5	9.8	10.8	ns

^[2] One input at 0.45 V or 1.2 V, other input at V_{CC} or GND.

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 Table 9.
 Dynamic characteristics ...continued

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

Symbol	Parameter	Conditions		25 °C		-4	0 °C to +1	25 °C	Unit
			Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
$V_{CC} = 3$.	0 V to 3.6 V; V _I = 2.3	3 V to 2.7 V	'	'				1	
t _{pd}	propagation delay	A, B, C to Y; see Figure 12	2]						
		C _L = 5 pF	1.6	2.8	4.4	0.5	5.3	5.9	ns
		C _L = 10 pF	2.1	3.4	5.1	1.0	6.1	6.8	ns
		C _L = 15 pF	2.4	3.9	5.6	1.0	6.8	7.5	ns
		C _L = 30 pF	3.4	5.0	7.0	1.5	8.5	9.4	ns
$V_{CC} = 3$.	0 V to 3.6 V; V _I = 3.0) V to 3.6 V							
t _{pd}	propagation delay	A, B, C to Y; see Figure 12	2]						
		C _L = 5 pF	1.3	2.8	4.4	0.5	4.7	5.2	ns
		C _L = 10 pF	1.7	3.3	5.1	1.0	5.7	6.3	ns
		C _L = 15 pF	2.1	3.8	5.7	1.0	6.2	6.9	ns
		C _L = 30 pF	3.1	4.9	7.0	1.5	7.8	8.6	ns
T _{amb} = 2	5 °C								
C_{PD}	power dissipation	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$	<u>B]</u>						
	capacitance	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	3.6	-	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	4.3	-	-	-	-	pF

^[1] All typical values are measured at nominal V_{CC}.

$$P_D = C_{PD} \times V_{CC}{}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}{}^2 \times f_o) \text{ where:}$$

 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 the outputs.

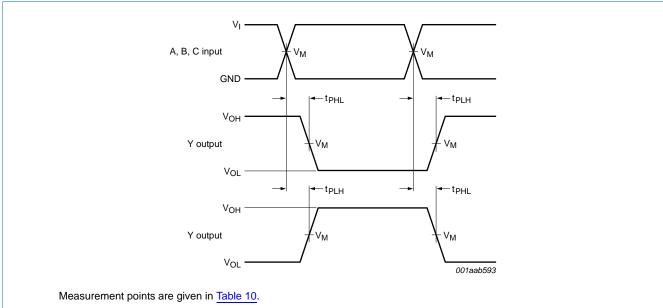
^[2] $\ t_{pd}$ is the same as t_{PLH} and $t_{PHL}.$

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

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12. Waveforms



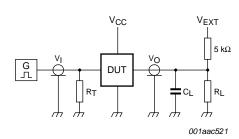
 V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig 12. 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	V _I	$t_r = t_f$
2.3 V to 3.6 V	$0.5 \times V_{CC}$	$0.5 \times V_{I}$	1.65 V to 3.6 V	≤ 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_o of the pulse generator.

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

Fig 13. 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}
2.3 V to 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 k Ω or 1 M Ω	open	GND	$2\times V_{CC}$

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

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13. Package outline

Plastic surface-mounted package; 6 leads

SOT363

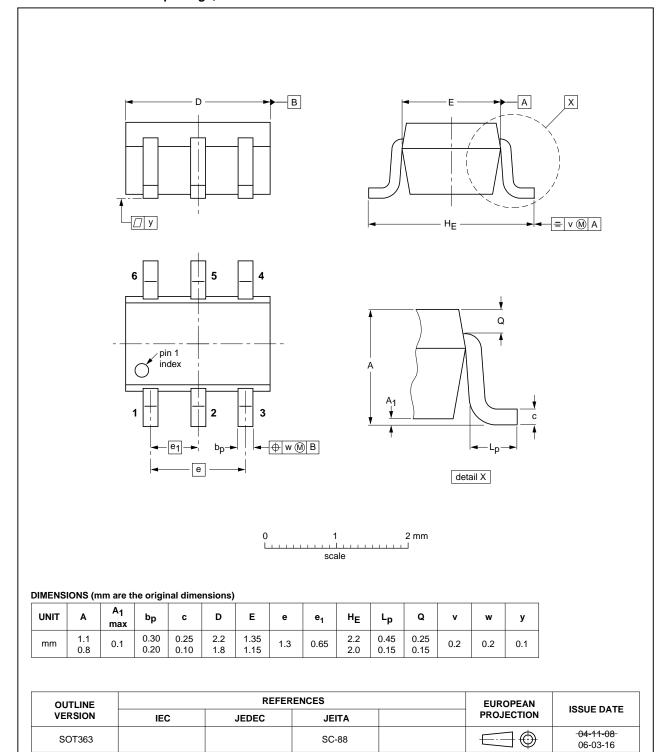


Fig 14. Package outline SOT363 (SC-88)

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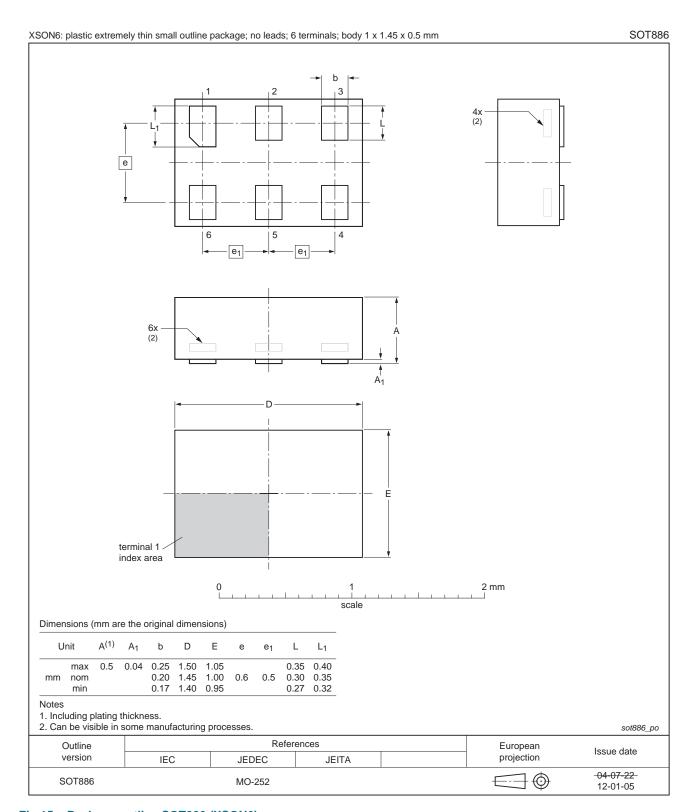


Fig 15. Package outline SOT886 (XSON6)

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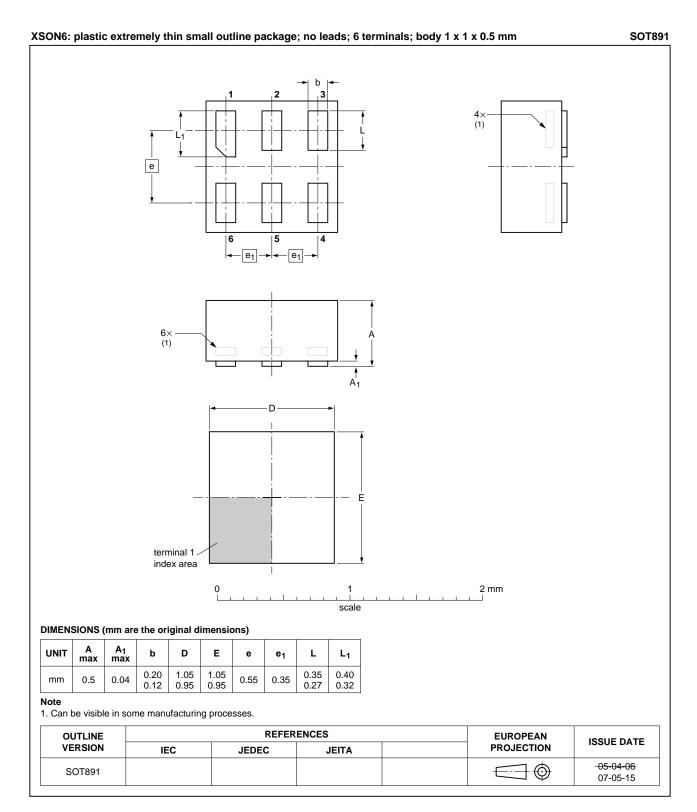


Fig 16. Package outline SOT891 (XSON6)

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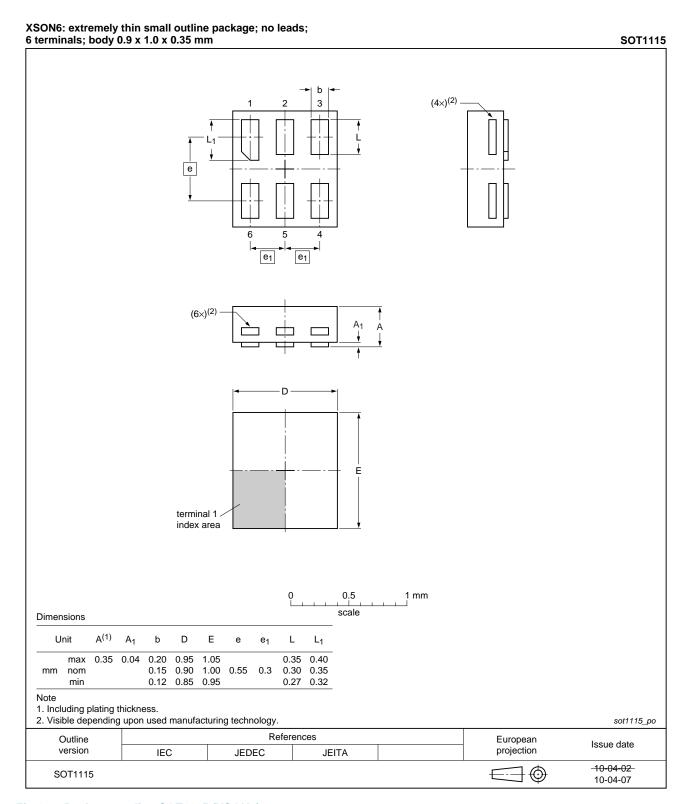


Fig 17. Package outline SOT1115 (XSON6)

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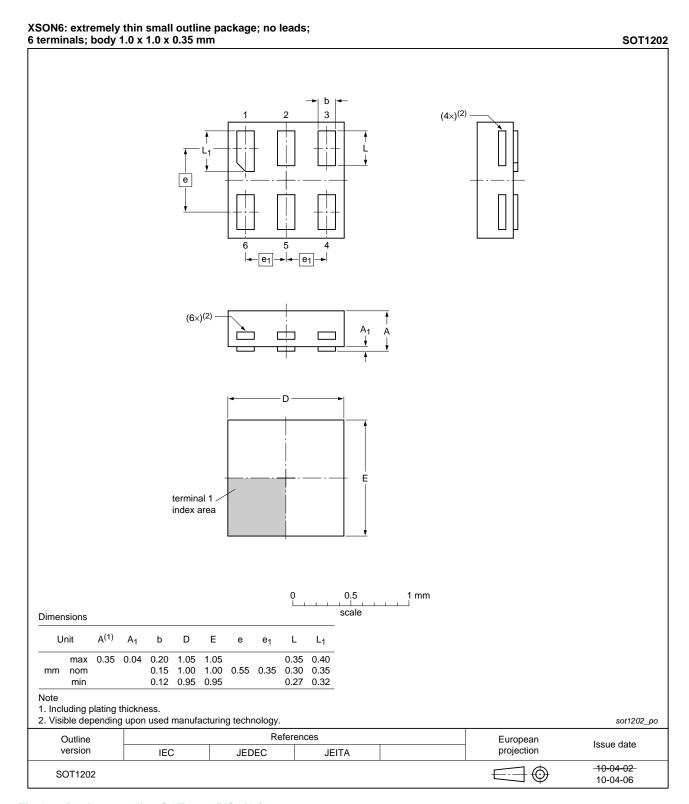


Fig 18. Package outline SOT1202 (XSON6)

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14. Abbreviations

Table 12. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model

15. Revision history

Table 13. Revision history

Release date	Data about status		
	Data sheet status	Change notice	Supersedes
20120815	Product data sheet	-	74AUP1T58 v.4
Package outline	drawing of SOT886 (Figure 15) r	nodified.	
20111128	Product data sheet	-	74AUP1T58 v.3
20101018	Product data sheet	-	74AUP1T58 v.2
20090929	Product data sheet	-	74AUP1T58 v.1
20080306	Product data sheet	-	-
	• Package outline 20111128 20101018 20090929	 Package outline drawing of SOT886 (Figure 15) r 20111128 Product data sheet 20101018 Product data sheet 20090929 Product data sheet 	 Package outline drawing of SOT886 (Figure 15) modified. 20111128 Product data sheet - 20101018 Product data sheet - 20090929 Product data sheet -

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16. Legal information

16.1 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"
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