

74AUP1T98

Low-power configurable gate with voltage-level translator

Rev. 4 — 15 august 2012

Product data sheet

1. General description

The 74AUP1T98 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 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 2.3 V to 3.6 V.

The 74AUP1T98 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.

2. Features and benefits

- 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 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 $-40^{\circ}C$ to $+85^{\circ}C$ and $-40^{\circ}C$ to $+125^{\circ}C$



3. Ordering information

Table 1. Ordering information

Type number	Package				Version
	Temperature range	Name	Description		
74AUP1T98GW	−40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads		SOT363
74AUP1T98GM	−40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm		SOT886
74AUP1T98GF	−40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1 × 0.5 mm		SOT891
74AUP1T98GN	−40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm		SOT1115
74AUP1T98GS	−40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm		SOT1202

4. Marking

Table 2. Marking

Type number	Marking code
74AUP1T98GW	aR
74AUP1T98GM	aR
74AUP1T98GF	aR
74AUP1T98GN	aR
74AUP1T98GS	aR

5. Functional diagram

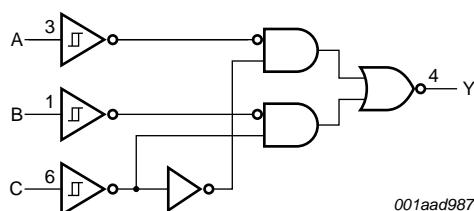
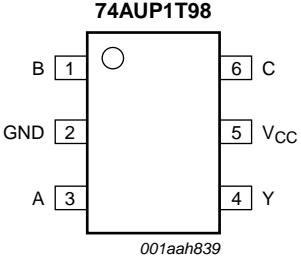
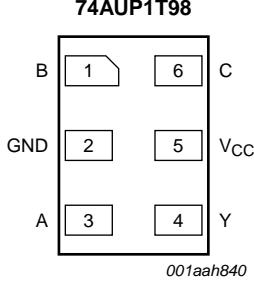
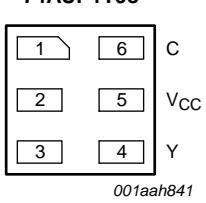


Fig 1. Logic symbol

6. Pinning information

6.1 Pinning

 <p>Fig 2. Pin configuration SOT363</p>	 <p>74AUP1T98 001aah840 Transparent top view</p>	 <p>74AUP1T98 001aah841 Transparent top view</p>
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6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
B	1	data input
GND	2	ground (0 V)
A	3	data input
Y	4	data output
V _{CC}	5	supply voltage
C	6	data input

7. Functional description

Table 4. Function table^[1]

Input			Output
C	B	A	Y
L	L	L	H
L	L	H	H
L	H	L	L
L	H	H	L
H	L	L	H
H	L	H	L
H	H	L	H
H	H	H	L

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

7.1 Logic configurations

Table 5. Function selection table

Logic function	Figure
2-input MUX (inverting)	see Figure 5
2-input NAND	see Figure 6
2-input NOR with one input inverted	see Figure 7
2-input AND with one input inverted	see Figure 7
2-input NAND with one input inverted	see Figure 8
2-input OR with one input inverted	see Figure 8
2-input NOR	see Figure 9
Buffer	see Figure 10
Inverter	see Figure 11

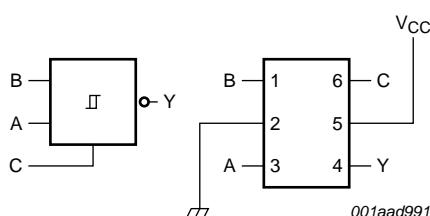


Fig 5. 2-input MUX (inverting)

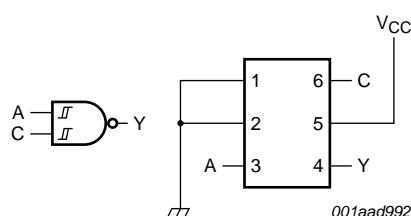


Fig 6. 2-input NAND gate

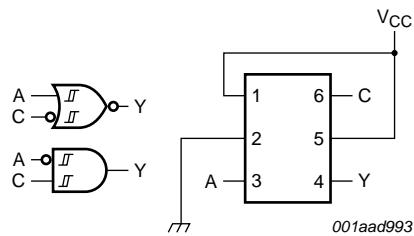


Fig 7. 2-input AND gate with input A inverted or 2-input NOR gate with input C inverted

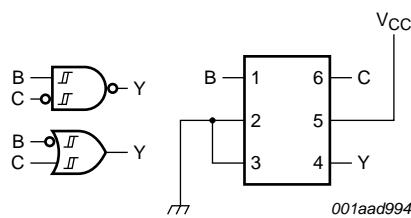


Fig 8. 2-input OR gate with input B inverted or 2-input NAND gate with input C inverted

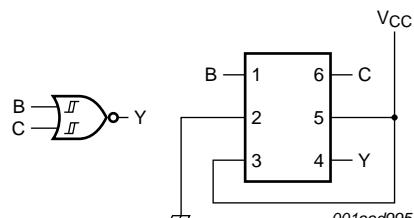


Fig 9. 2-input NOR gate

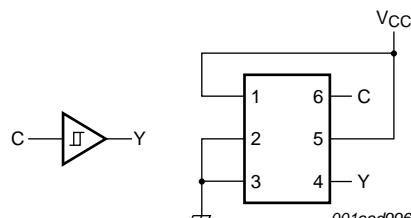


Fig 10. Buffer

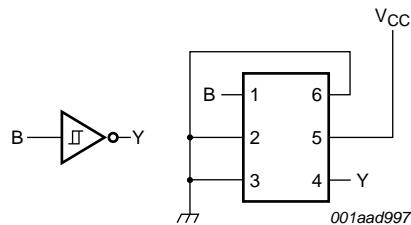


Fig 11. Inverter

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
V _I	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 mode	[1] -0.5	+4.6	V
I _O	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 °C to +125 °C	[2] -	250	mW

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

[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.

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
V _O	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

10. Static characteristics

Table 8. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$T_{amb} = 25\text{ }^{\circ}\text{C}$						
V_{T+}	positive-going threshold voltage	$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	0.60	-	1.10	V
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	0.75	-	1.16	V
V_{T-}	negative-going threshold voltage	$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	0.35	-	0.60	V
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	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	$V_I = V_{T+} \text{ or } V_{T-}$				
		$I_O = -20\text{ }\mu\text{A}; V_{CC} = 2.3\text{ V to }3.6\text{ V}$	$V_{CC} - 0.1$	-	-	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	$V_I = V_{T+} \text{ or } V_{T-}$				
		$I_O = 20\text{ }\mu\text{A}; V_{CC} = 2.3\text{ V to }3.6\text{ V}$	-	-	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
I_I	input leakage current	$V_I = \text{GND to }3.6\text{ V}; V_{CC} = 0\text{ V to }3.6\text{ V}$	-	-	± 0.1	μA
I_{OFF}	power-off leakage current	$V_I \text{ or } V_O = 0\text{ V to }3.6\text{ V}; V_{CC} = 0\text{ V}$	-	-	± 0.1	μA
ΔI_{OFF}	additional power-off leakage current	$V_I \text{ or } V_O = 0\text{ V to }3.6\text{ V}; V_{CC} = 0\text{ V to }0.2\text{ V}$	-	-	± 0.2	μA
I_{CC}	supply current	$V_I = \text{GND or }V_{CC}; I_O = 0\text{ A}; V_{CC} = 2.3\text{ V to }3.6\text{ V}$	-	-	1.2	μA
C_I	input capacitance	$V_{CC} = 0\text{ V to }3.6\text{ V}; V_I = \text{GND or }V_{CC}$	-	0.8	-	pF
C_O	output capacitance	$V_O = \text{GND}; V_{CC} = 0\text{ V}$	-	1.7	-	pF
$T_{amb} = -40\text{ }^{\circ}\text{C to }+85\text{ }^{\circ}\text{C}$						
V_{T+}	positive-going threshold voltage	$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	0.60	-	1.10	V
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	0.75	-	1.19	V
V_{T-}	negative-going threshold voltage	$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	0.35	-	0.60	V
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	0.50	-	0.85	V
V_H	hysteresis voltage	$(V_H = V_{T+} - V_{T-})$				
		$V_{CC} = 2.3\text{ V to }2.7\text{ V}$	0.10	-	0.60	V
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	0.15	-	0.56	V

Table 8. Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{OH}	HIGH-level output voltage	V _I = V _{T+} or V _{T-}				
		I _O = -20 μ A; V _{CC} = 2.3 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -2.3 mA; V _{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
V _{OL}	LOW-level output voltage	I _O = -4.0 mA; V _{CC} = 3.0 V	2.55	-	-	V
		V _I = V _{T+} or V _{T-}				
		I _O = 20 μ A; V _{CC} = 2.3 V to 3.6 V	-	-	0.1	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 _I	input leakage current	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
		V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	± 0.5	μ A
		I _{OFF} or V _O = 0 V to 3.6 V; V _{CC} = 0 V	-	-	± 0.5	μ A
		ΔI_{OFF} or V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V	-	-	± 0.5	μ A
I _{CC}	supply current	V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 2.3 V to 3.6 V	-	-	1.5	μ A
ΔI_{CC}	additional supply current	V _{CC} = 2.3 V to 2.7 V; I _O = 0 A	[1]	-	4	μ A
		V _{CC} = 3.0 V to 3.6 V; I _O = 0 A	[2]	-	12	μ A
T_{amb} = -40 °C to +125 °C						
V _{T+}	positive-going threshold voltage	V _{CC} = 2.3 V to 2.7 V	0.60	-	1.10	V
		V _{CC} = 3.0 V to 3.6 V	0.75	-	1.19	V
V _{T-}	negative-going threshold voltage	V _{CC} = 2.3 V to 2.7 V	0.33	-	0.64	V
		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 V to 2.7 V	0.10	-	0.60	V
		V _{CC} = 3.0 V to 3.6 V	0.15	-	0.56	V
V _{OH}	HIGH-level output voltage	V _I = V _{T+} or V _{T-}				
		I _O = -20 μ A; V _{CC} = 2.3 V to 3.6 V	V _{CC} - 0.11	-	-	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
V _{OL}	LOW-level output voltage	I _O = -4.0 mA; V _{CC} = 3.0 V	2.30	-	-	V
		V _I = V _{T+} or V _{T-}				
		I _O = 20 μ A; V _{CC} = 2.3 V to 3.6 V	-	-	0.11	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.36	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.50	V
I _I	input leakage current	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
		V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	± 0.75	μ A

Table 8. Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ	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	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	-	-	± 0.75	μA
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	μA
ΔI_{CC}	additional supply current	$V_{CC} = 2.3$ V to 2.7 V; $I_O = 0$ A	[1]	-	7	μA
		$V_{CC} = 3.0$ V to 3.6 V; $I_O = 0$ A	[2]	-	22	μA

[1] One input at 0.3 V or 1.1 V, other input at V_{CC} or GND.[2] One input at 0.45 V or 1.2 V, other input at V_{CC} or GND.

11. Dynamic characteristics

Table 9. Dynamic characteristicsVoltages are referenced to GND (ground = 0 V); for test circuit see [Figure 13](#).

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; $V_I = 1.65$ V to 1.95 V									
t_{pd}	propagation delay	A, B, C to Y; see Figure 12	[2]						
		$C_L = 5$ pF	2.0	3.6	5.7	0.5	6.8	7.5	ns
		$C_L = 10$ pF	2.5	4.2	6.3	1.0	7.9	8.7	ns
		$C_L = 15$ pF	2.9	4.6	6.9	1.0	8.7	9.6	ns
		$C_L = 30$ pF	3.9	5.8	8.3	1.5	10.8	11.9	ns
$V_{CC} = 2.3$ V to 2.7 V; $V_I = 2.3$ 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	5.6	0.5	6.0	6.6	ns
		$C_L = 10$ pF	2.1	4.0	6.3	1.0	7.1	7.9	ns
		$C_L = 15$ pF	2.5	4.5	6.9	1.0	7.9	8.7	ns
		$C_L = 30$ pF	3.4	5.6	8.4	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	1.3	3.2	5.2	0.5	5.5	6.1	ns
		$C_L = 10$ pF	1.8	3.7	5.9	1.0	6.5	7.2	ns
		$C_L = 15$ pF	2.2	4.2	6.5	1.0	7.4	8.2	ns
		$C_L = 30$ pF	3.1	5.4	7.9	1.5	9.5	10.5	ns
$V_{CC} = 3.0$ V to 3.6 V; $V_I = 1.65$ 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	4.1	0.5	8.0	8.8	ns
		$C_L = 10$ pF	2.4	3.5	4.8	1.0	8.5	9.4	ns
		$C_L = 15$ pF	2.8	3.9	5.4	1.0	9.1	10.1	ns
		$C_L = 30$ pF	3.6	5.1	6.9	1.5	9.8	10.8	ns

Table 9. Dynamic characteristics ...continuedVoltages are referenced to GND (ground = 0 V); for test circuit see [Figure 13](#).

Symbol	Parameter	Conditions	25 °C			−40 °C to +125 °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 V to 2.7 V									
t _{pd}	propagation delay	A, B, C to Y; see Figure 12 ^[2]							
		C _L = 5 pF	1.5	2.8	4.4	0.5	5.3	5.9	ns
		C _L = 10 pF	2.0	3.4	5.1	1.0	6.1	6.8	ns
		C _L = 15 pF	2.4	3.9	5.7	1.0	6.8	7.5	ns
		C _L = 30 pF	3.4	5.0	7.2	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	5.2	1.0	5.7	6.3	ns
		C _L = 15 pF	2.1	3.8	5.8	1.0	6.2	6.9	ns
		C _L = 30 pF	3.1	5.0	7.2	1.5	7.8	8.6	ns
T_{amb} = 25 °C									
C _{PD}	power dissipation	f _i = 1 MHz; V _I = GND to V _{CC} ^[3]							
	capacitance	V _{CC} = 2.3 V to 2.7 V	-	3.6	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.3	-	-	-	-	pF

[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).

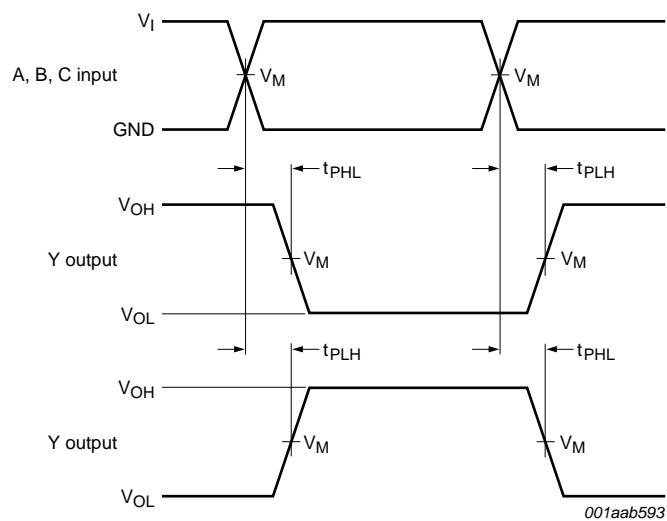
$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o)$$

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;

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

12. Waveforms



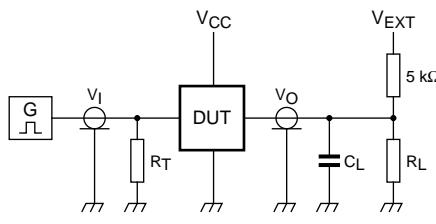
Measurement points are given in [Table 10](#).

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	$\leq 3.0 \text{ ns}$



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.

Fig 13. Test circuit for measuring switching times

Table 11. Test data

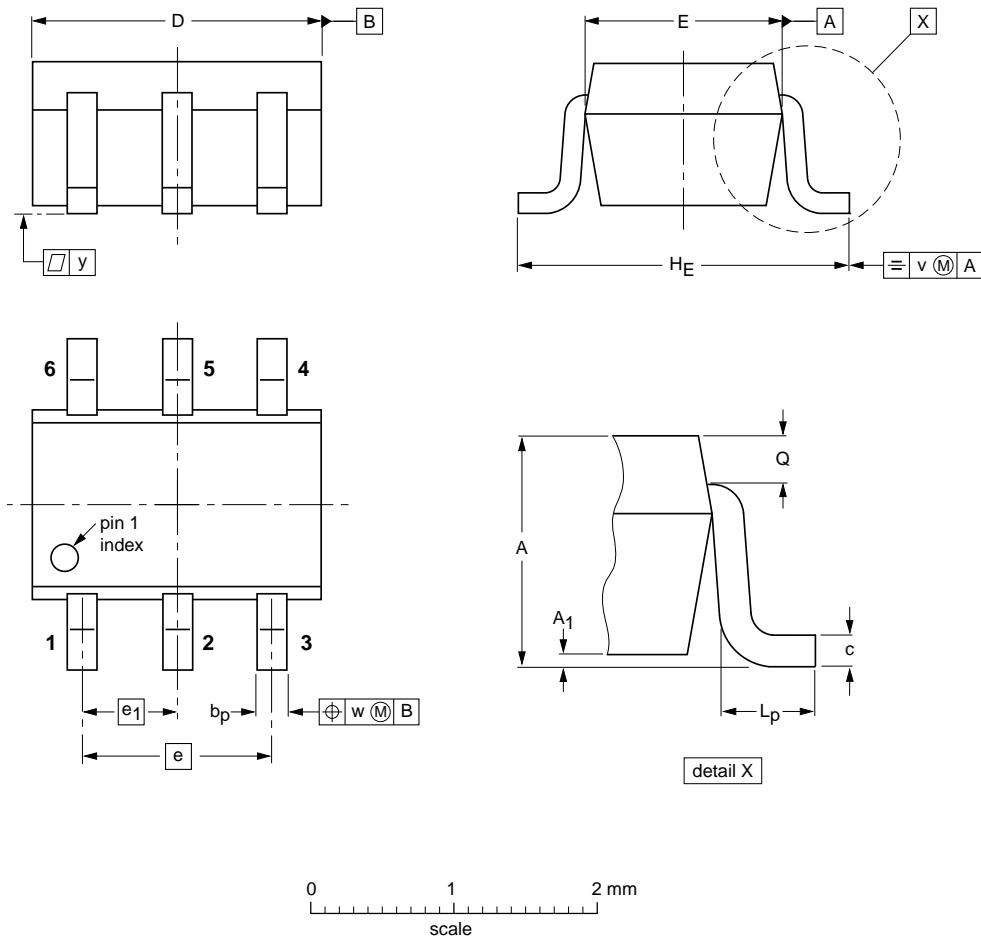
Supply voltage	Load	V_{EXT}			
V_{CC}	C_L	R_L ^[1]	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
2.3 V to 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 kΩ or 1 MΩ	open	GND	$2 \times V_{CC}$

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

13. Package outline

Plastic surface-mounted package; 6 leads

SOT363



DIMENSIONS (mm are the original dimensions)

UNIT	A	A_1 max	b_p	c	D	E	e	e_1	H_E	L_p	Q	v	w	y
mm	1.1 0.8	0.1	0.30 0.20	0.25 0.10	2.2 1.8	1.35 1.15	1.3	0.65	2.2 2.0	0.45 0.15	0.25 0.15	0.2	0.2	0.1

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT363			SC-88			04-11-08 06-03-16

Fig 14. Package outline SOT363 (SC-88)

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

SOT886

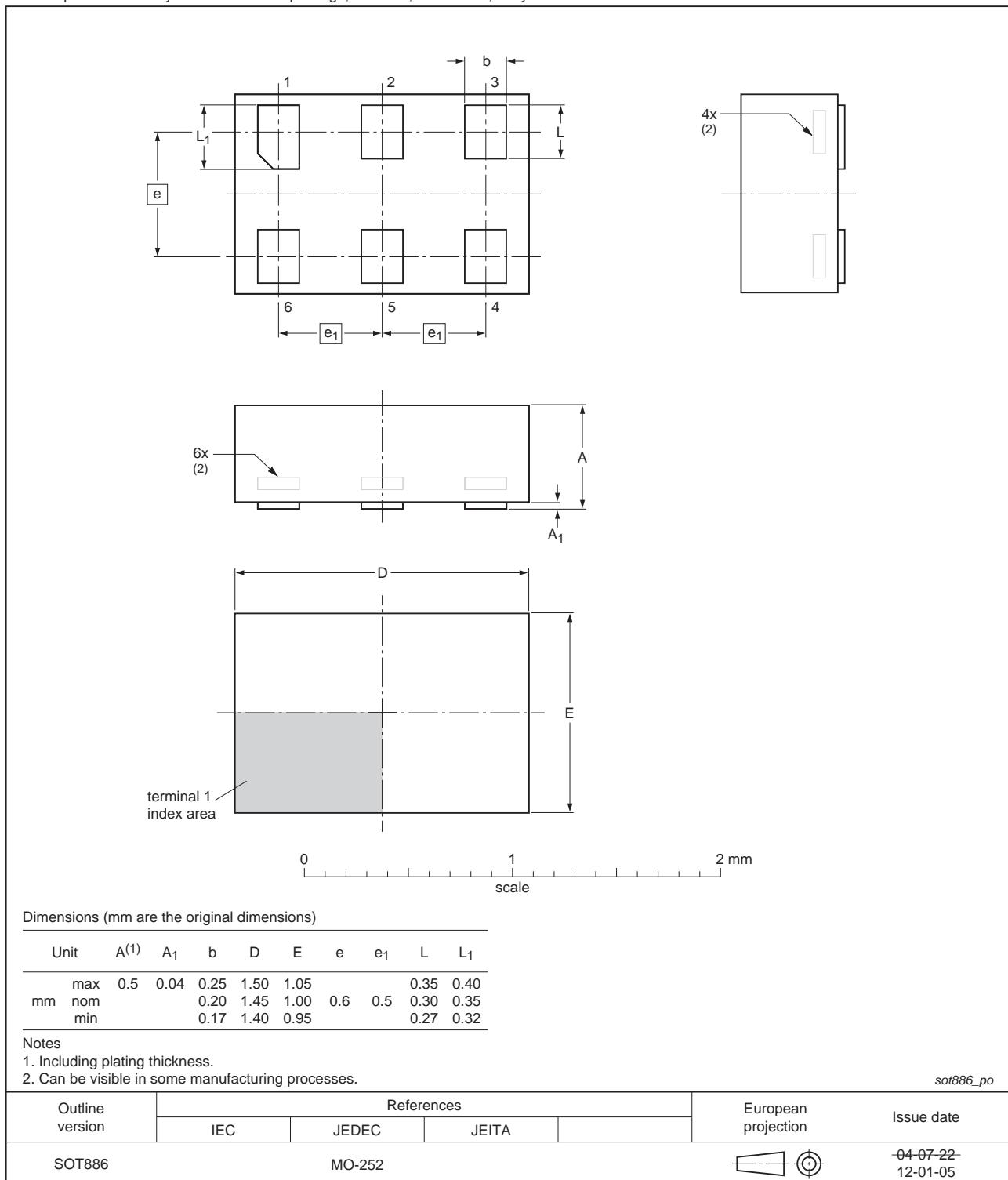
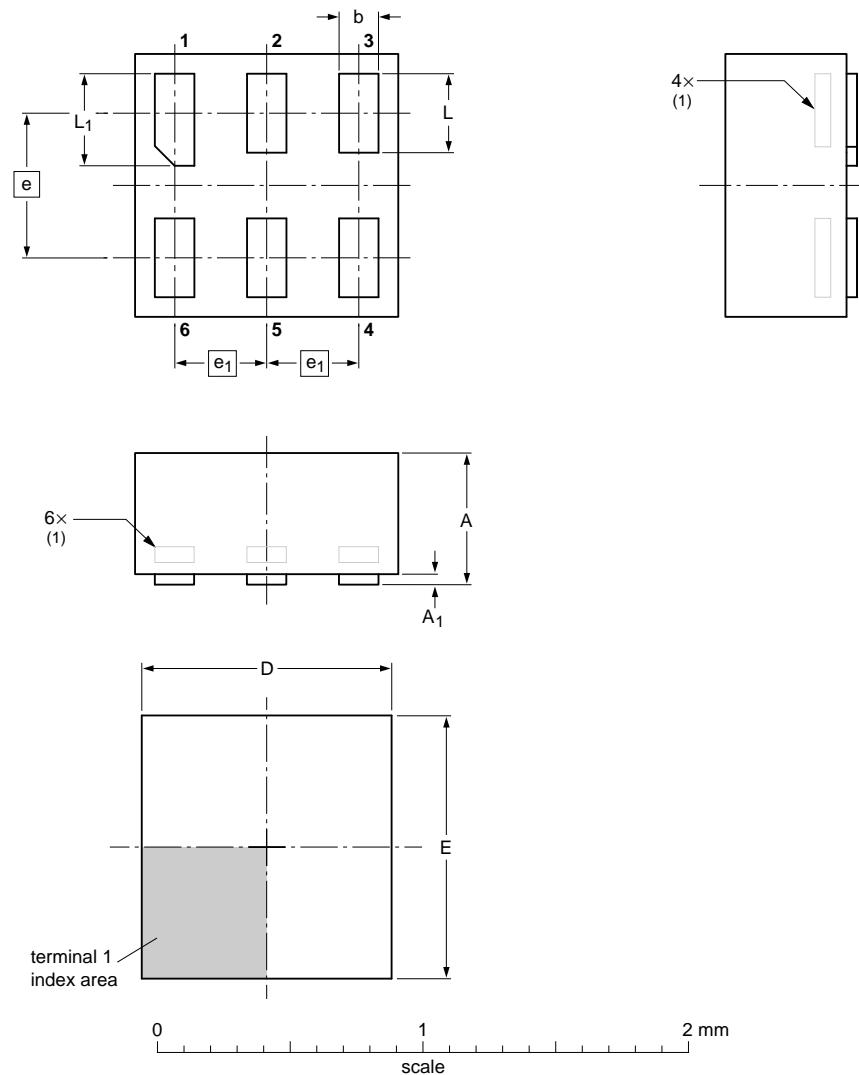


Fig 15. Package outline SOT886 (XSON6)

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

SOT891



DIMENSIONS (mm are the original dimensions)

UNIT	A max	A1 max	b	D	E	e	e1	L	L1
mm	0.5	0.04	0.20 0.12	1.05 0.95	1.05 0.95	0.55	0.35 0.27	0.35 0.27	0.40 0.32

Note

1. Can be visible in some manufacturing processes.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT891						05-04-06 07-05-15

Fig 16. Package outline SOT891 (XSON6)

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

SOT1115

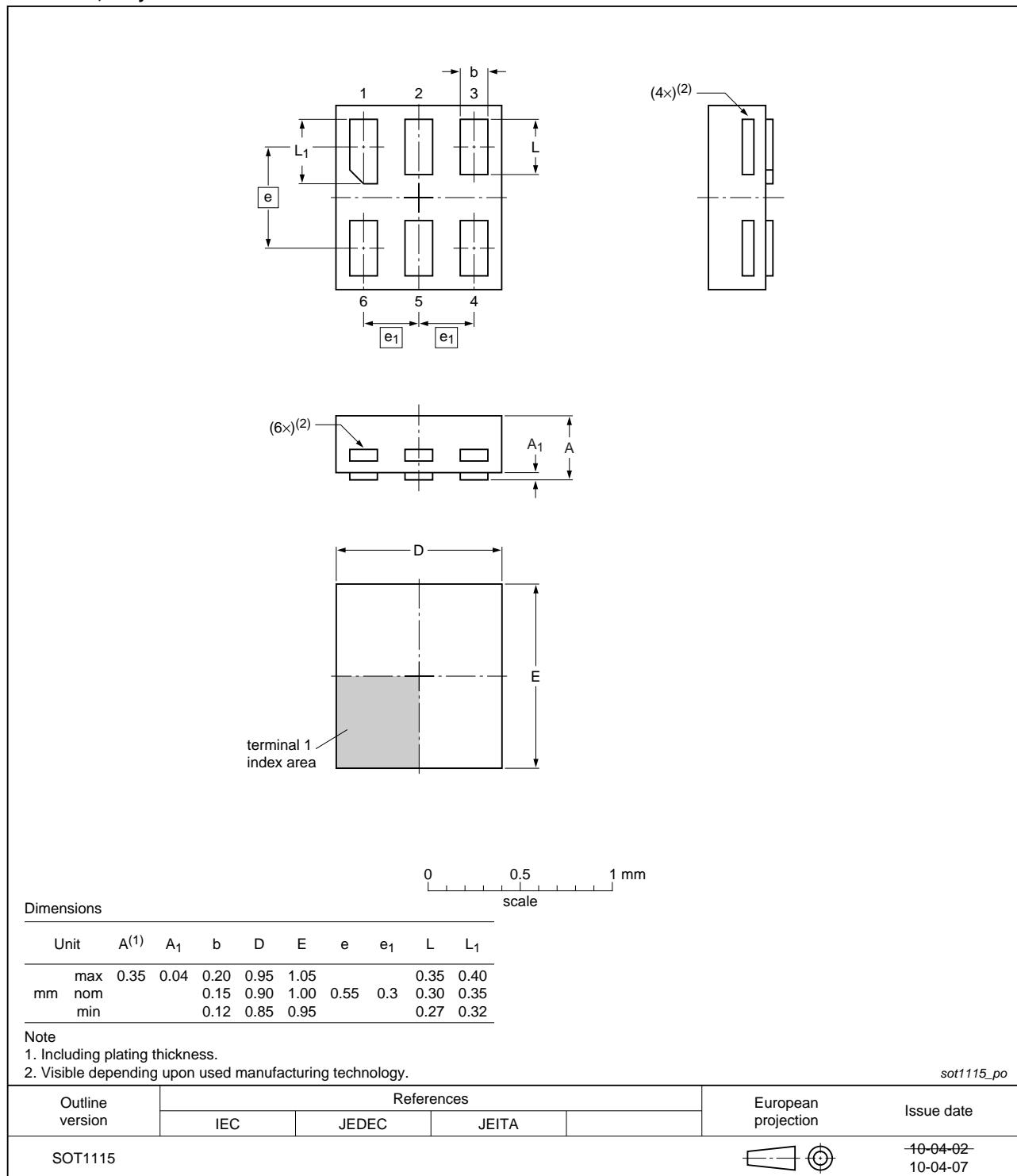


Fig 17. Package outline SOT1115 (XSON6)

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

SOT1202

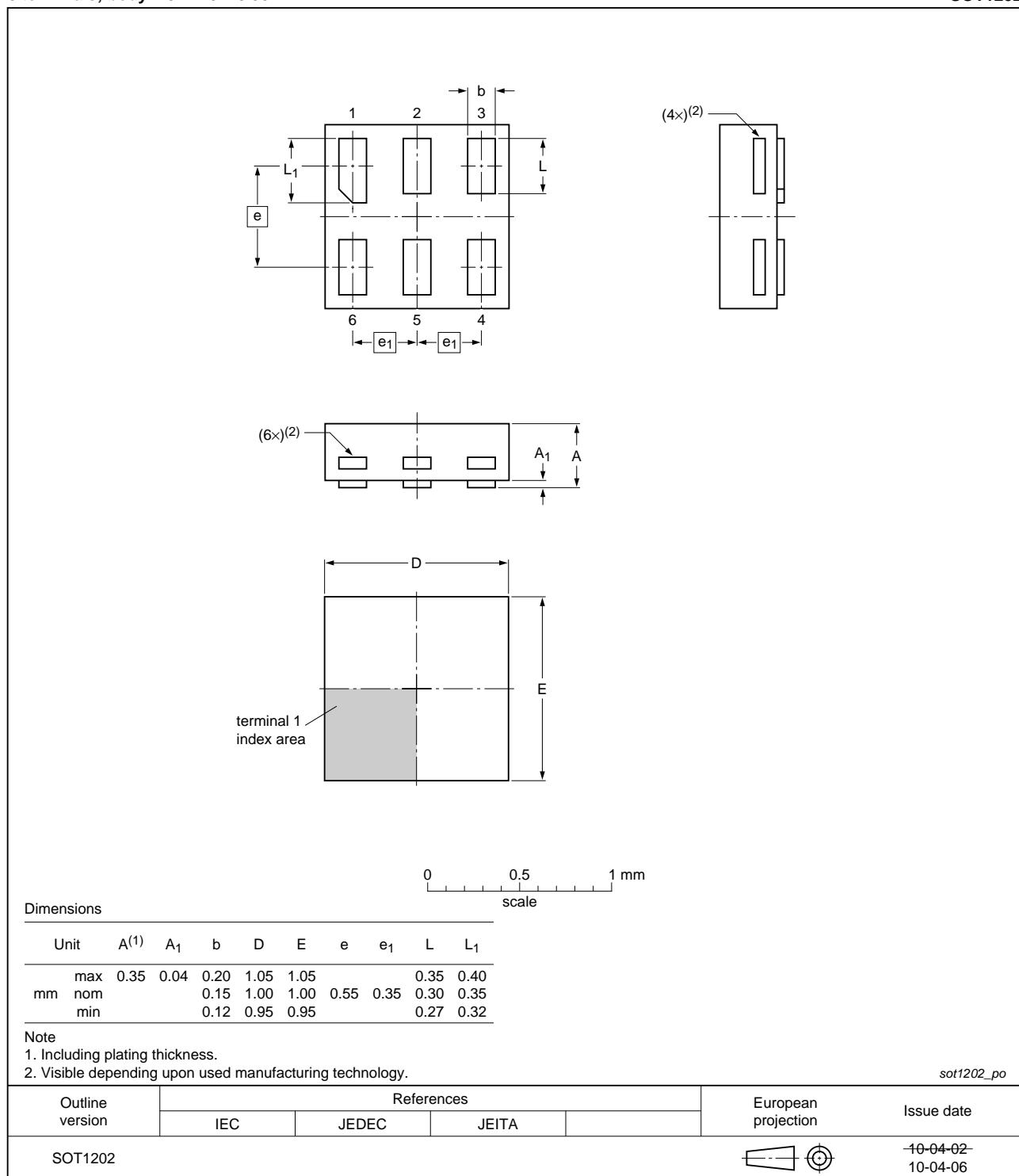


Fig 18. Package outline SOT1202 (XSON6)

14. Abbreviations

Table 12. Abbreviations

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

15. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP1T98 v.4	20120815	Product data sheet	-	74AUP1T98 v.3
Modifications:	• Package outline drawing of SOT886 (Figure 15) modified.			
74AUP1T98 v.3	20111130	Product data sheet	-	74AUP1T98 v.2
74AUP1T98 v.2	20101019	Product data sheet	-	74AUP1T98 v.1
74AUP1T98 v.1	20080306	Product data sheet	-	-

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.

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[2] The term 'short data sheet' is explained in section "Definitions".

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