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74AUP1G09

Low-power 2-input AND gate with open-drain Rev. 4 — 28 June 2012

Product data sheet

General description 1.

The 74AUP1G09 provides the single 2-input AND gate with an open-drain output. The output of the device is an open-drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Schmitt trigger action at all inputs makes the circuit tolerant to slower input rise and fall times across the entire V_{CC} range from 0.8 V to 3.6 V.

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.

2. Features and benefits

- Wide supply voltage range from 0.8 V to 3.6 V
- High noise immunity
- Complies with JEDEC standards:
 - ◆ JESD8-12 (0.8 V to 1.3 V)
 - ◆ JESD8-11 (0.9 V to 1.65 V)
 - ◆ JESD8-7 (1.2 V to 1.95 V)
 - ◆ JESD8-5 (1.8 V to 2.7 V)
 - ◆ JESD8-B (2.7 V to 3.6 V)
- 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; $I_{CC} = 0.9 \mu A$ (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



Low-power 2-input AND gate with open-drain

3. Ordering information

Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74AUP1G09GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1						
74AUP1G09GM	–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						
74AUP1G09GF	–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						
74AUP1G09GN	–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						
74AUP1G09GS	–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						
74AUP1G09GX	–40 °C to +125 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8 \times 0.8 \times 0.35$ mm	SOT1226						

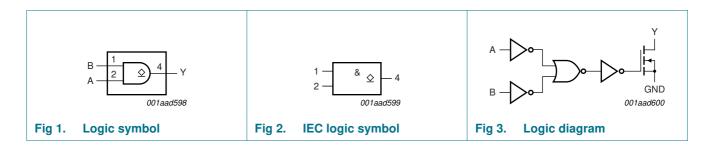
4. Marking

Table 2. Marking

Type number	Marking code ^[1]
74AUP1G09GW	p9
74AUP1G09GM	р9
74AUP1G09GF	р9
74AUP1G09GN	р9
74AUP1G09GS	р9
74AUP1G09GX	р9

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

5. Functional diagram

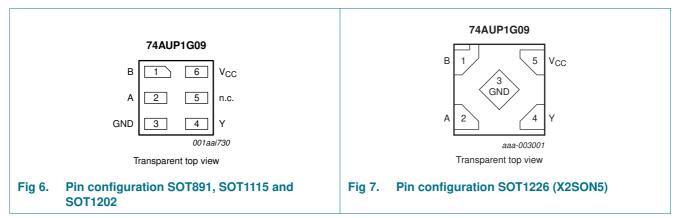


Low-power 2-input AND gate with open-drain

6. Pinning information

6.1 Pinning





6.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	TSSOP5 and X2SON5	XSON6	
В	1	1	data input
Α	2	2	data input
GND	3	3	ground (0 V)
Υ	4	4	data output
n.c.	-	5	not connected
V_{CC}	5	6	supply voltage

Low-power 2-input AND gate with open-drain

7. Functional description

Table 4. Function table[1]

Input		Output
A	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	Z

^[1] H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF state.

8. Limiting values

Table 5. 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	$V_{l} < 0 V$	– 50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+4.6	V
I _{OK}	output clamping current	V _O < 0 V	– 50	-	mA
V _O	output voltage	Active mode and Power-down mode	<u>[1]</u> –0.5	+4.6	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	+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 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	supply voltage		8.0	3.6	V
V _I	input voltage		0	3.6	V
V _O	output voltage	Active mode and Power-down mode	0	3.6	V
T _{amb}	ambient temperature		-40	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	0	200	ns/V

^[2] For TSSOP5 packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K.
For XSON6 and X2SON5 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

Low-power 2-input AND gate with open-drain

10. Static characteristics

Table 7. 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 _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	$0.7V_{CC}$	-	-	V
		V _{CC} = 0.9 V to 1.95 V	0.65V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.6	-	-	V
		V _{CC} = 3.0 V to 3.6 V	2.0	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 0.8 V	-	-	0.3V _{CC}	V
		V _{CC} = 0.9 V to 1.95 V	-	-	0.35V _{CC}	٧
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	٧
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	٧
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 20 \mu A$; $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.1	٧
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3V _{CC}	٧
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.31	٧
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.31	٧
		$I_O = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.31	٧
		$I_O = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.44	٧
		$I_O = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.31	٧
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.44	٧
l _l	input leakage current	$V_I = GND$ to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.1	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = 0$ V to 3.6 V; $V_{CC} = 3.6$ 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	-	-	±0.2	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	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.5	μΑ
ΔI_{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	40	μΑ
Cı	input capacitance	$V_{CC} = 0 \text{ V to } 3.6 \text{ V}; V_{I} = \text{GND or } V_{CC}$	-	0.8	-	рF
Co	output capacitance	output enabled; $V_O = GND$; $V_{CC} = 0 V$	-	1.7	-	рF
		output disabled; V _O = GND; V _{CC} = 0 V	-	1.1	-	рF
T _{amb} = -	40 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	0.7V _{CC}	-	-	٧
		V _{CC} = 0.9 V to 1.95 V	0.65V _{CC}	-	-	٧
		V _{CC} = 2.3 V to 2.7 V	1.6	-	-	٧
		V _{CC} = 3.0 V to 3.6 V	2.0	-	-	٧
V _{IL}	LOW-level input voltage	V _{CC} = 0.8 V	-	-	0.3V _{CC}	٧
		V _{CC} = 0.9 V to 1.95 V	-	-	0.35V _{CC}	٧
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	0.7	٧
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	-	0.9	٧
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Low-power 2-input AND gate with open-drain

Table 7. Static characteristics ...continued
At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Uni
V_{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 20 \mu A$; $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.1	٧
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3V _{CC}	٧
		$I_{O} = 1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	-	0.37	٧
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.35	٧
		$I_O = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.33	٧
		$I_O = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.45	٧
		$I_O = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.33	٧
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.45	٧
l _I	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
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = 0$ V to 3.6 V; $V_{CC} = 3.6$ V	-	-	±0.5	μΑ
l _{OFF}	power-off leakage current	V_I or $V_O = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.5	μΑ
ΔI_{OFF}	additional power-off leakage current	V_1 or $V_O = 0$ V to 3.6 V; $V_{CC} = 0$ V to 0.2 V	-	-	±0.6	μΑ
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A}; $ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.9	μΑ
ΔI_{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	50	μΑ
T _{amb} = -	40 °C to +125 °C					
V _{IH}	HIGH-level input voltage	$V_{CC} = 0.8 \text{ V}$	0.75V _{CC}	-	-	٧
		V _{CC} = 0.9 V to 1.95 V	0.7V _{CC}	-	-	٧
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.6	-	-	٧
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	2.0	-	-	٧
V _{IL}	LOW-level input voltage	$V_{CC} = 0.8 \text{ V}$	-	-	0.25V _{CC}	٧
		V _{CC} = 0.9 V to 1.95 V	-	-	$0.3V_{CC}$	٧
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	0.7	٧
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	٧
V_{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = 20 \mu A$; $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.11	٧
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.33V _{CC}	٧
		$I_O = 1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	-	0.41	٧
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.39	٧
		$I_O = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.36	٧
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.50	٧
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.36	٧
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.50	٧
l _l	input leakage current	$V_1 = GND \text{ to } 3.6 \text{ V}; V_{CC} = 0 \text{ V to } 3.6 \text{ V}$	-	-	±0.75	μΑ
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = 0$ V to 3.6 V; $V_{CC} = 3.6$ V	-	-	±0.75	μA
l _{OFF}	power-off leakage current	V_1 or $V_0 = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.75	μΑ

Low-power 2-input AND gate with open-drain

 Table 7.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
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	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	1.4	μΑ
ΔI_{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	75	μΑ

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V; for test circuit see Figure 9

Symbo	Parameter	Conditions			25 °C		-40	0 °C to +1	25 °C	Unit
				Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
C _L = 5 p	oF .		·		'			•		'
t _{pd}	propagation delay	A or B to Y; see Figure 8	[2]							
		$V_{CC} = 0.8 \text{ V}$		-	13.5	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$		1.9	4.6	10.4	1.8	11.4	12.6	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$		1.5	3.3	6.5	1.4	7.4	8.2	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.2	2.9	5.1	1.1	5.9	6.5	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	2.2	3.8	0.9	4.5	4.9	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		0.9	2.3	4.0	0.8	4.5	4.9	ns
C _L = 10	pF									
t _{pd}	propagation delay	A or B to Y; see Figure 8	[2]							
		$V_{CC} = 0.8 \text{ V}$		-	16.3	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$		2.3	5.6	12.3	2.1	13.7	15.1	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$		1.8	4.1	7.6	1.7	8.8	9.7	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.6	3.8	6.1	1.4	7.1	7.8	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.4	2.9	4.6	1.2	5.4	5.9	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.3	3.2	5.7	1.1	6.4	7.0	ns
C _L = 15	pF									
t _{pd}	propagation delay	A or B to Y; see Figure 8	[2]							
		$V_{CC} = 0.8 \text{ V}$		-	19.0	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$		2.6	6.6	14.2	2.4	15.8	17.4	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$		2.1	4.8	8.7	1.9	10.1	11.1	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.9	4.6	7.6	1.7	8.5	9.3	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.6	3.6	5.6	1.5	6.3	6.9	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.6	4.1	7.5	1.4	8.3	9.1	ns

Low-power 2-input AND gate with open-drain

 Table 8.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V; for test circuit see Figure 9

Symbol	Parameter	Conditions			25 °C		-40	°C to +1	25 °C	Unit
				Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
t_{pd}	propagation delay	A or B to Y; see Figure 8	[2]			,			•	
		$V_{CC} = 0.8 \text{ V}$		-	27.0	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$		3.6	9.5	19.5	3.2	21.8	24.0	ns
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$		2.9	7.0	11.5	2.6	13.6	15.0	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		2.6	7.0	12.1	2.3	13.3	14.6	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.4	5.4	8.9	2.1	9.9	10.9	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		2.3	6.5	12.7	2.1	13.9	15.3	ns
C _L = 5 p	F, 10 pF, 15 pF and	30 pF								
C_{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	[3]							
		$V_{CC} = 0.8 \text{ V}$		-	0.6	-	-	-	-	pF
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$		-	0.7	-	-	-	-	pF
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$		-	8.0	-	-	-	-	pF
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		-	0.9	-	-	-	-	pF
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	1.1	-	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	1.4	-	-	-	-	pF

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

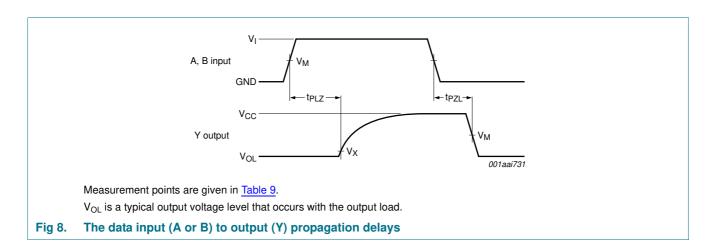
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N$ where:

 f_i = input frequency in MHz;

 V_{CC} = supply voltage in V;

N = number of inputs switching.

12. Waveforms



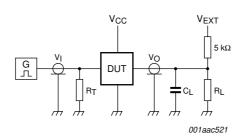
^[2] t_{pd} is the same as t_{PZL} and t_{PLZ} .

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

Low-power 2-input AND gate with open-drain

Table 9. Measurement points

Supply voltage	Input	Output			
V _{CC}	V _M	V _M	V _X		
0.8 V to 1.6 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.1 V		
1.65 V to 2.7 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.15 V		
3.0 V to 3.6 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V		



Test data is given in Table 10.

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 9. Test circuit for measuring switching times

Table 10. 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	$5~\text{k}\Omega$ or $1~\text{M}\Omega$	open	GND	2V _{CC}	

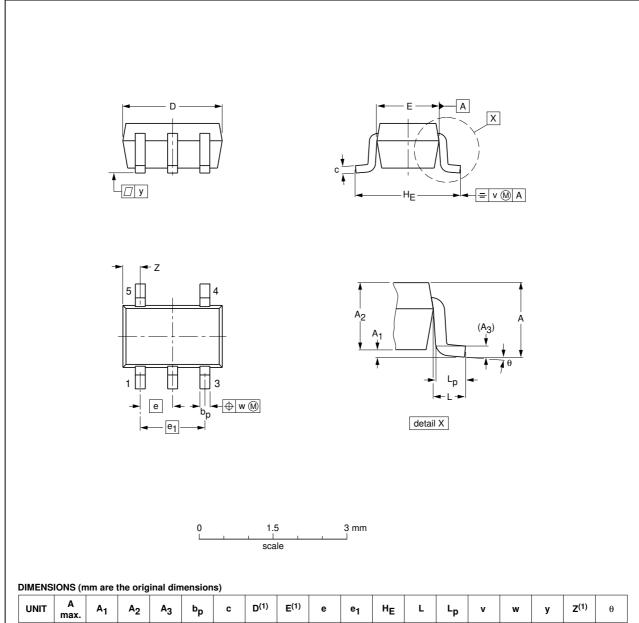
[1] For measuring enable and disable times $R_L = 5 \text{ k}\Omega$.

For measuring propagation delays, set-up and hold times, and pulse width, R_{L} = 1 $M\Omega_{\cdot}$

13. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	e ₁	HE	L	Lp	v	w	у	Z ⁽¹⁾	θ
mm	1.1	0.1 0	1.0 0.8	0.15	0.30 0.15	0.25 0.08	2.25 1.85	1.35 1.15	0.65	1.3	2.25 2.0	0.425	0.46 0.21	0.3	0.1	0.1	0.60 0.15	7° 0°

Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT353-1		MO-203	SC-88A			-00-09-01 03-02-19	

Fig 10. Package outline SOT353-1 (TSSOP5)

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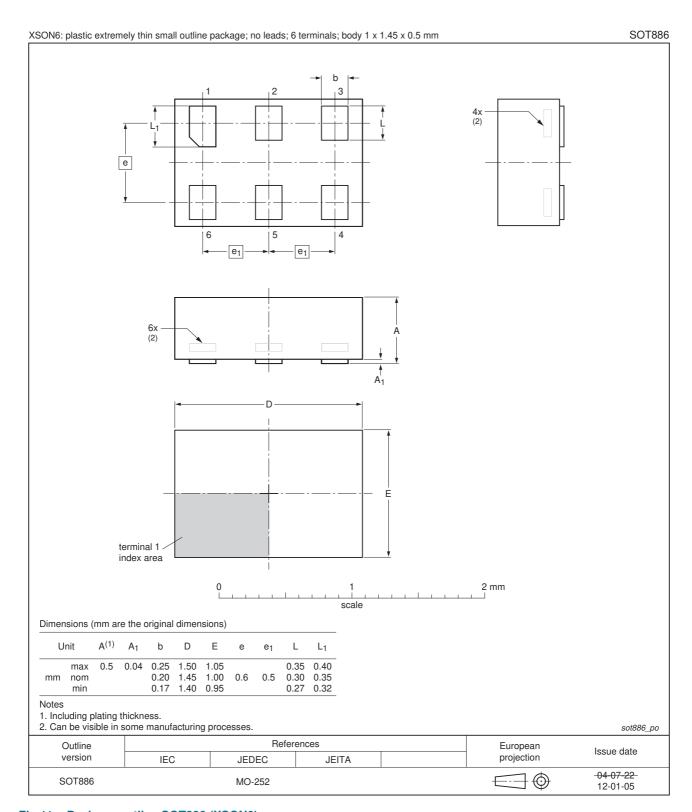


Fig 11. Package outline SOT886 (XSON6)

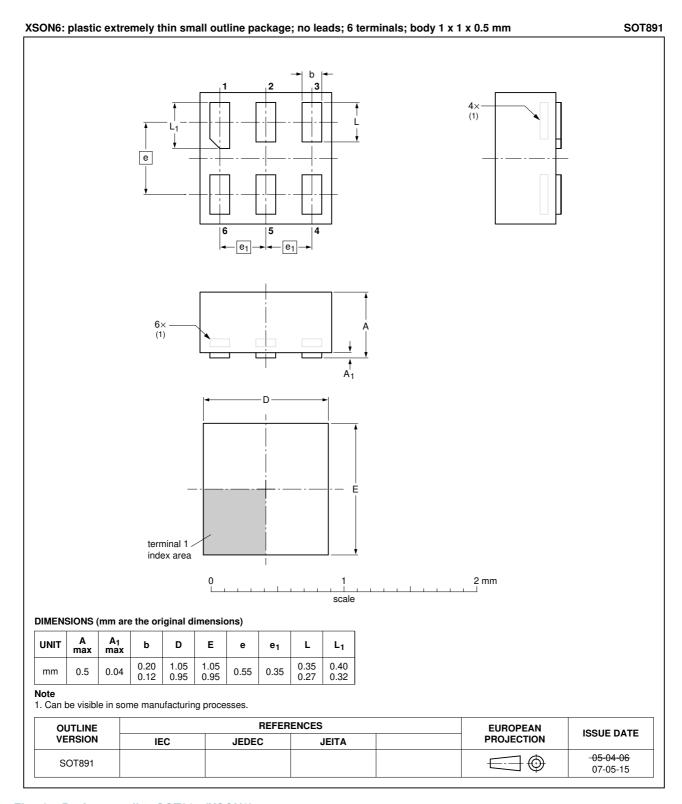


Fig 12. Package outline SOT891 (XSON6)

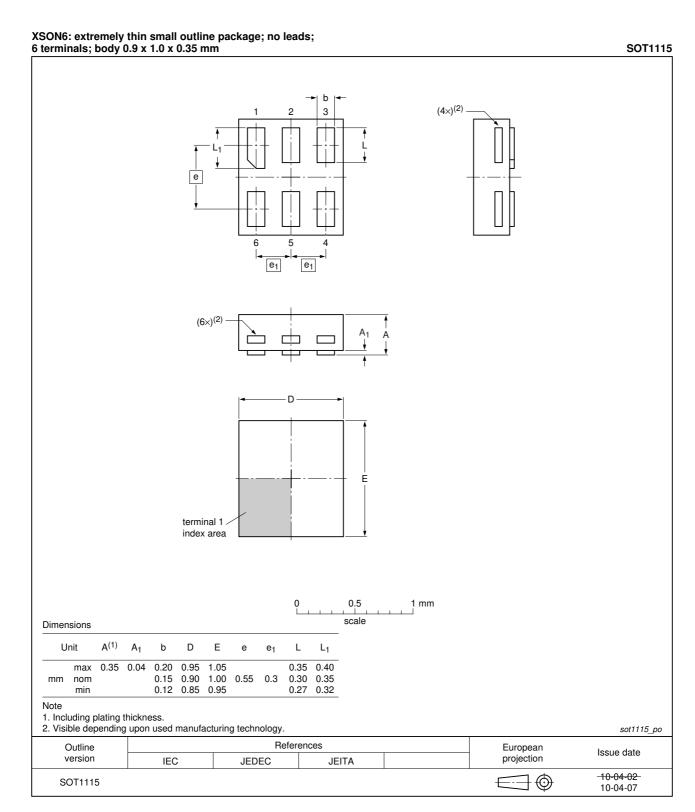


Fig 13. Package outline SOT1115 (XSON6)

13 of 19

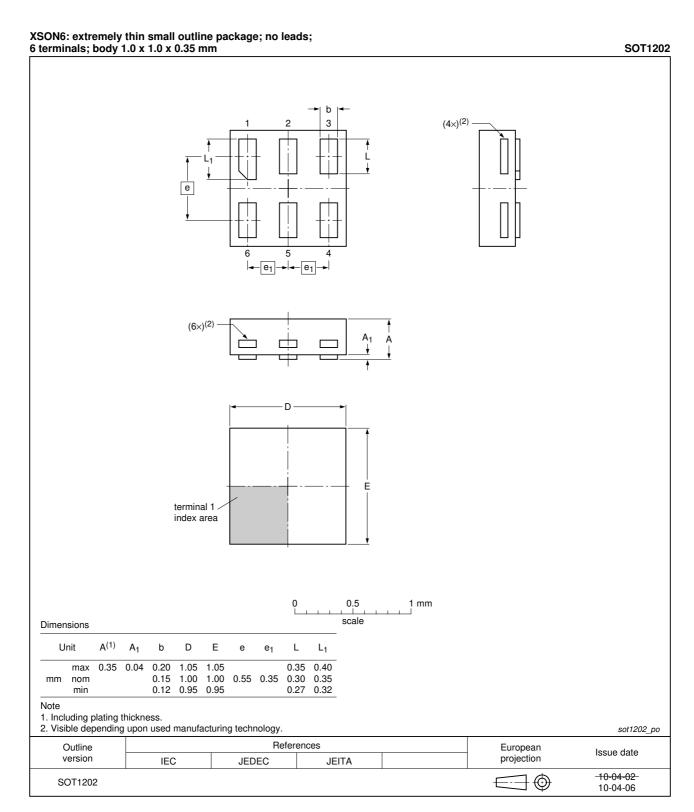


Fig 14. Package outline SOT1202 (XSON6)

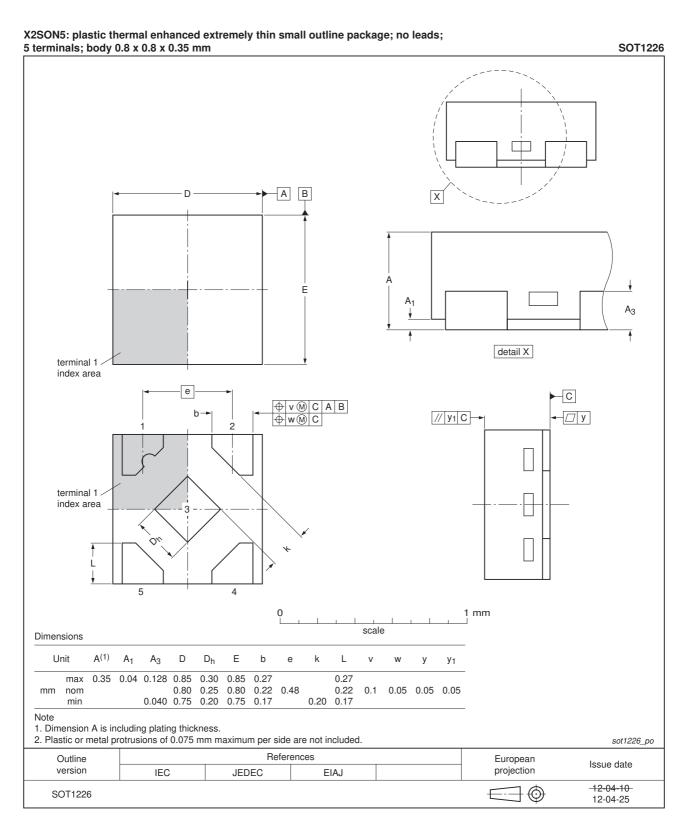


Fig 15. Package outline SOT1226 (X2SON5)

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14. Abbreviations

Table 11. Abbreviations

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

15. Revision history

Table 12. Revision history

Release date	Data sheet status	Change notice	Supersedes
20120628	Product data sheet	-	74AUP1G09 v.3
Added type no	umber 74AUP1G09GX (SO	T1226)	
 Package outli 	ne drawing of SOT886 (Figu	re 11) modified.	
20111128	Product data sheet	-	74AUP1G09 v.2
 Legal pages ι 	updated.		
20100709	Product data sheet	-	74AUP1G09 v.1
20090115	Product data sheet	-	-
	20120628 • Added type n • Package outli 20111128 • Legal pages to 20100709	20120628 Product data sheet • Added type number 74AUP1G09GX (SOT) • Package outline drawing of SOT886 (Figure 20111128 Product data sheet • Legal pages updated. 20100709 Product data sheet	20120628 Product data sheet - • Added type number 74AUP1G09GX (SOT1226) • Package outline drawing of SOT886 (Figure 11) modified. 20111128 Product data sheet - • Legal pages updated. 20100709 Product data sheet -

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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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18. Contents

1	General description
2	Features and benefits
3	Ordering information 2
4	Marking 2
5	Functional diagram 2
6	Pinning information 3
6.1	Pinning
6.2	Pin description
7	Functional description 4
8	Limiting values 4
9	Recommended operating conditions 4
10	Static characteristics 5
11	Dynamic characteristics
12	Waveforms
13	Package outline
14	Abbreviations
15	Revision history
16	Legal information
16.1	Data sheet status
16.2	Definitions
16.3	Disclaimers
16.4	Trademarks18
17	Contact information 18
10	Contents 10

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