74AUP1G11 Low-power 3-input AND gate

Rev. 7 — 13 October 2021

1. General description

The 74AUP1G11 is a single 3-input AND gate. Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times. This device ensures 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 potentially 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
- Low static power consumption; $I_{CC} = 0.9 \ \mu A$ (maximum)
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Overvoltage tolerant inputs to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- I_{OFF} circuitry provides partial Power-down mode operation
- 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
- 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	iber Package								
	Temperature range	Name	Description	Version					
74AUP1G11GW	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	SOT363-2					
74AUP1G11GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886					
74AUP1G11GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115					
74AUP1G11GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202					

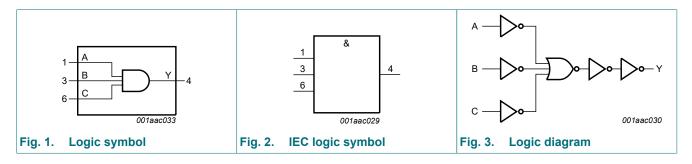
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4. Marking

Type number	Marking code[1]
74AUP1G11GW	pU
74AUP1G11GM	pU
74AUP1G11GN	pU
74AUP1G11GS	pU

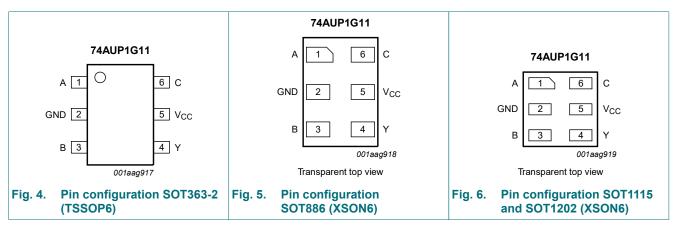
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description							
Symbol	Pin	Description					
A	1	data input					
GND	2	ground (0 V)					
В	3	data input					
Y	4	data output					
V _{CC}	5	supply voltage					
С	6	data input					

7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care.

Input	Output		
Α	В	C	Y
Н	Н	Н	Н
L	Х	Х	L
X	L	Х	L
Х	Х	L	L

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 _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I _{OK}	output clamping current	V ₀ < 0 V	-50	-	mA
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
lo	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 °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 SOT363-2 (TSSOP6) package: P_{tot} derates linearly with 3.7 mW/K above 83 °C. For SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C. For SOT1115 (XSON6) package: P_{tot} derates linearly with 3.2 mW/K above 71 °C. For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

9. Recommended operating conditions

Table 6. Recommended operating conditions										
Symbol	Parameter	Conditions	Min	Мах	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					
Δt/ΔV	input transition rise and fall rate	V _{CC} = 0.8 V to 3.6 V	-	200	ns/V					

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
T _{amb} = 2	5 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	0.70 × V _{CC}	-	-	V
		V _{CC} = 0.9 V to 1.95 V	0.65 × V _{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	-	-	$0.30 \times V_{CC}$	V
		V _{CC} = 0.9 V to 1.95 V	-	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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	0.75 × V _{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 voltage	V _I = V _{IH} or V _{IL}				
		I_{O} = 20 µA; V_{CC} = 0.8 V to 3.6 V	-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	$0.3 \times V_{CC}$	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	μA
I _{OFF}	power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.2	μA
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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
ΔI _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±0.2	μA
I _{CC}	supply current	V_{I} = GND or V_{CC} ; I_{O} = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	0.5	μA
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]	-	-	40	μA
CI	input capacitance	V_{CC} = 0 V to 3.6 V; V _I = GND or V _{CC}	-	0.8	-	pF
Co	output capacitance	$V_0 = GND; V_{CC} = 0 V$	-	1.7	-	pF
T _{amb} = -4	0 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	$0.70 \times V_{CC}$	-	-	V
		V _{CC} = 0.9 V to 1.95 V	$0.65 \times V_{CC}$	-	-	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	-	-	$0.30 \times V_{CC}$	V
		V _{CC} = 0.9 V to 1.95 V	-	-	0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH}$ or V_{IL}				
		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	0.7 × V _{CC}	-	-	V
		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 _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
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.55	-	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH}$ or V_{IL}				
		$I_{O} = 20 \ \mu\text{A}; \ V_{CC} = 0.8 \ \text{V} \text{ to } 3.6 \ \text{V}$	-	_	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3 × V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.37	V
		$I_0 = 1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.35	V
		$I_0 = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.33	V
		$I_0 = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.45	V
		$I_0 = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.33	V
		$I_0 = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.45	V
l _l	input leakage current	$V_{I} = GND \text{ to } 3.6 \text{ V}; V_{CC} = 0 \text{ V to } 3.6 \text{ V}$	-	-	±0.5	μA
I _{OFF}	power-off leakage current	$V_{\rm I}$ or $V_{\rm O}$ = 0 V to 3.6 V; $V_{\rm CC}$ = 0 V	-	-	±0.5	μA
ΔI _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±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	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ [1] $V_{CC} = 3.3 \text{ V}$	-	-	50	μA

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Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
T _{amb} = -4	40 °C to +125 °C				-	
V _{IH} HIGH-level input voltage		V _{CC} = 0.8 V	0.75 × V _{CC}	-	-	V
		V _{CC} = 0.9 V to 1.95 V	$0.70 \times V_{CC}$	-	-	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	-	-	0.25 × V _{CC}	V
		V _{CC} = 0.9 V to 1.95 V	-	-	$0.30 \times V_{CC}$	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH}$ or V_{IL}				
		I_{O} = -20 µA; V_{CC} = 0.8 V to 3.6 V	V _{CC} - 0.11	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	$0.6 \times V_{CC}$	-	-	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 voltage	$V_{I} = V_{IH}$ or V_{IL}				
		I_{O} = 20 µA; V_{CC} = 0.8 V to 3.6 V	-	-	0.11	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.33 × V _{CC}	V
		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 mA; V _{CC} = 2.3 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
I	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.75	μA
I _{OFF}	power-off leakage current	V_1 or V_0 = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.75	μA
ΔI _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±0.75	μA
I _{CC}	supply current	$V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \text{ A}; V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	1.4	μA
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 V; I_0 = 0 A;$ [1] $V_{CC} = 3.3 V$	-	-	75	μA

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

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 8.

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	o +125 °C	Unit
			Min	Тур [1]	Мах	Min	Мах	Min	Max	
C _L = 5 p	F	1								
t _{pd}	propagation	A, B and C to Y; see Fig. 7 [2]								
	delay	V _{CC} = 0.8 V	-	18.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.0	5.6	9.5	2.8	9.9	2.8	10.0	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	3.9	5.9	2.2	6.5	2.2	6.8	ns
		V _{CC} = 1.65 V to 1.95 V	1.9	3.1	4.8	1.8	5.3	1.8	5.5	ns
		V _{CC} = 2.3 V to 2.7 V	1.6	2.5	3.6	1.4	4.0	1.4	4.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.3	2.2	3.2	1.2	3.5	1.2	3.7	ns
C _L = 10	pF	•								
t _{pd}	propagation	A, B and C to Y; see Fig. 7 [2]								
	delay	V _{CC} = 0.8 V	-	22.5	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.5	6.5	11.1	3.3	11.6	3.3	11.8	ns
		V _{CC} = 1.4 V to 1.6 V	2.8	4.5	6.8	2.6	7.5	2.6	7.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.4	3.7	5.6	2.1	6.2	2.1	6.4	ns
		V _{CC} = 2.3 V to 2.7 V	1.9	3.0	4.4	1.7	4.8	1.7	5.1	ns
		V _{CC} = 3.0 V to 3.6 V	1.7	2.8	4.0	1.5	4.3	1.5	4.5	ns
C _L = 15	pF									
t _{pd}	propagation	A, B and C to Y; see <u>Fig. 7</u> [2]								
	delay	V _{CC} = 0.8 V	-	23.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.9	7.3	12.5	3.6	13.3	3.6	13.4	ns
		V _{CC} = 1.4 V to 1.6 V	3.2	5.1	7.6	2.9	8.5	2.9	8.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.7	4.2	6.3	2.4	6.9	2.4	7.3	ns
		V_{CC} = 2.3 V to 2.7 V	2.3	3.5	5.0	2.0	5.5	2.0	5.8	ns
		V _{CC} = 3.0 V to 3.6 V	2.0	3.2	4.6	1.8	5.0	1.8	5.2	ns
C _L = 30	pF									
t _{pd}	propagation	A, B and C to Y; see <u>Fig. 7</u> [2]								
	delay	V _{CC} = 0.8 V	-	36.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	5.1	9.5	16.8	4.8	17.9	4.8	18.3	ns
		V _{CC} = 1.4 V to 1.6 V	4.2	6.7	10.0	3.8	11.3	3.8	11.8	ns
		V _{CC} = 1.65 V to 1.95 V	3.6	5.5	8.1	3.2	9.1	3.2	9.7	ns
		V _{CC} = 2.3 V to 2.7 V	3.0	4.6	6.6	2.8	7.2	2.8	7.5	ns
		V _{CC} = 3.0 V to 3.6 V	2.7	4.3	6.1	2.5	6.6	2.5	6.9	ns

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74AUP1G11

Low-power 3-input AND gate

Symbol	Parameter	Conditions	25 °C -		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit	
			Min	Typ [1]	Мах	Min	Max	Min	Max	1
C _L = 5 p	F, 10 pF, 15 pl	F and 30 pF								
C _{PD}	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{\text{CC}}$ [3]								
	dissipation capacitance	V _{CC} = 0.8 V	-	2.7	-	-	-	-	-	pF
	capacitance	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	-	3.5	-	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.1	-	-	-	-	-	pF

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

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

[3] \dot{C}_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

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

f_i = input frequency in MHz;

 f_o = output frequency in MHz;

 C_L = 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.

11.1. Waveforms and test circuit

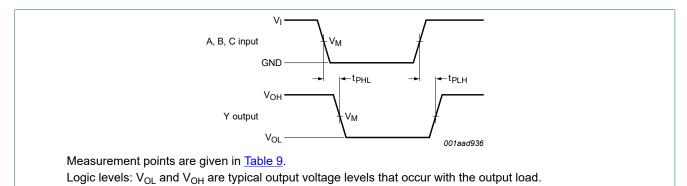


Fig. 7. Input A, B and C to output Y propagation delay times

Table 9. Measurement points

Supply voltage	Input	Output			
V _{cc}	V _M	V_{M} V_{I} $t_{r} = t_{f}$ V_{I}			
0.8 V to 3.6 V	$0.5 \times V_{CC}$	V _{CC}	≤ 3.0 ns	0.5 × V _{CC}	

Low-power 3-input AND gate

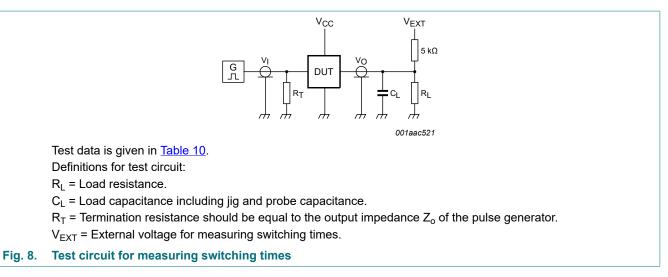


Table 10. Test data

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 kΩ or 1 MΩ	open	GND	2 × V _{CC}

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

For measuring propagation delay, setup and hold times and pulse width $R_L = 1 M\Omega$.

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Low-power 3-input AND gate

12. Package outline

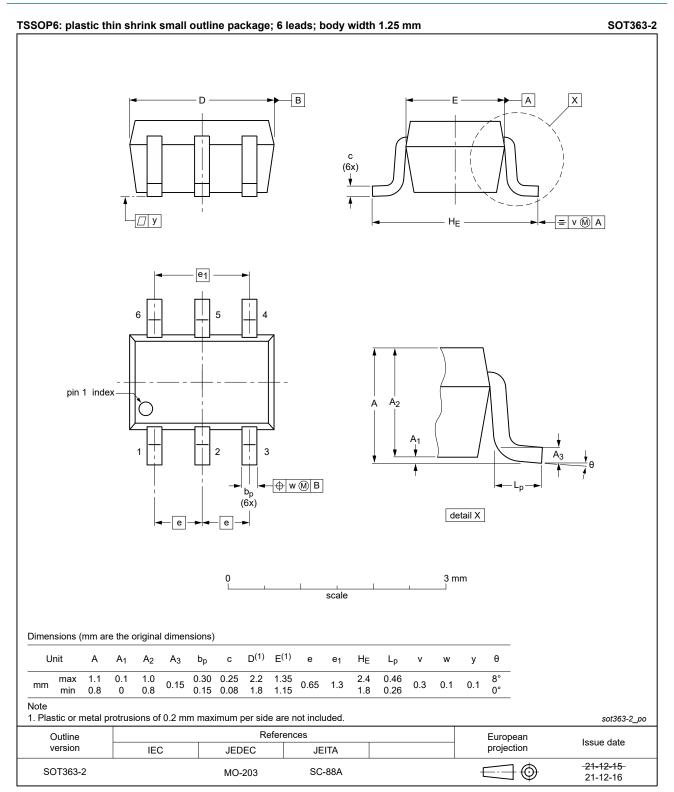


Fig. 9. Package outline SOT363-2 (TSSOP6)

Low-power 3-input AND gate

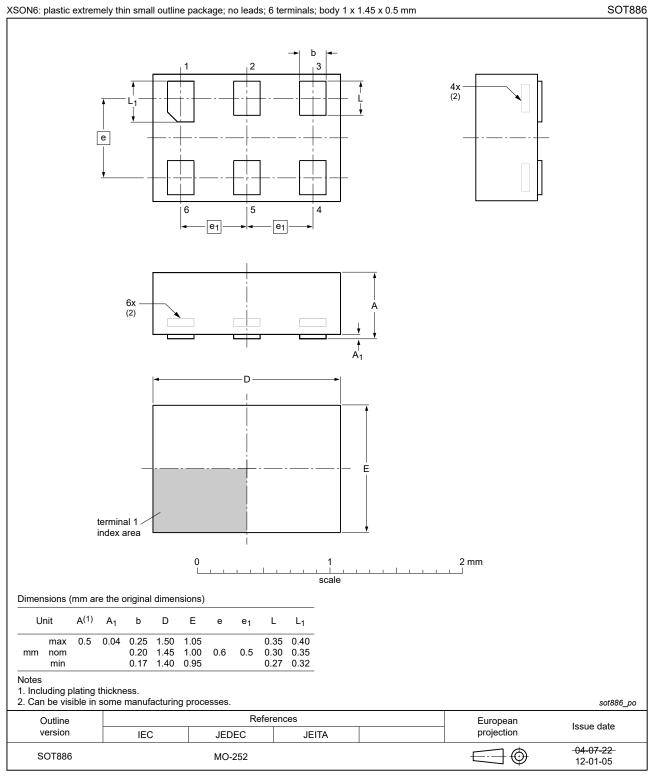
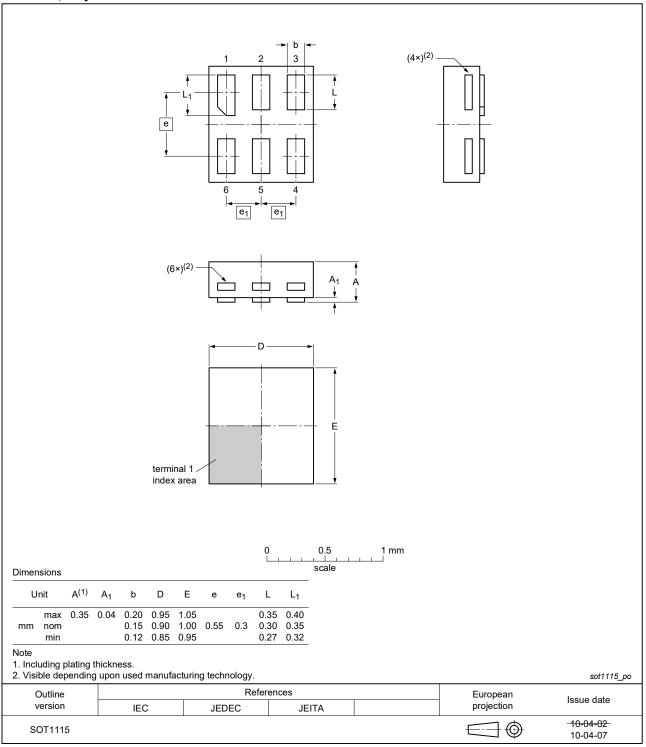


Fig. 10. Package outline SOT886 (XSON6)

SOT1115

Low-power 3-input AND gate

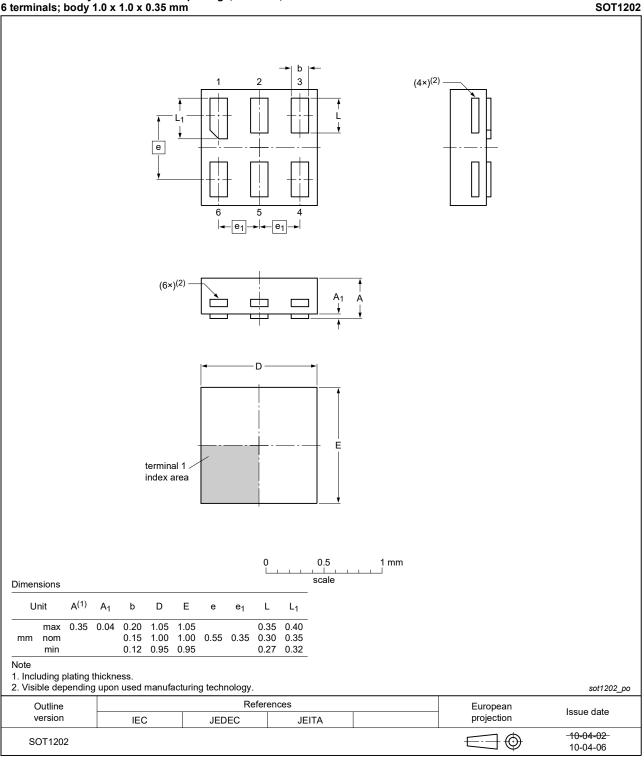
XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm





Low-power 3-input AND gate

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





13. Abbreviations

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

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AUP1G11 v.7	20211013	Product data sheet	-	74AUP1G11 v.6	
Modifications:	Package S	OT363 (SC-88) changed to	o SOT363-2 (TSS	OP-6).	
74AUP1G11 v.6	20210519	Product data sheet	-	74AUP1G11 v.5	
Modifications:	<u>Section 1</u> a	 Type number 74AUP1G11GF (SOT891 / XSON6) removed. <u>Section 1</u> and <u>Section 2</u> updated. <u>Section 8</u>: Derating values for P_{tot} total power dissipation updated. 			
74AUP1G11 v.5	20180820	Product data sheet	-	74AUP1G11 v.4	
Modifications:	guidelines	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. 			
74AUP1G11 v.4	20120803	Product data sheet	-	74AUP1G11 v.3	
Modifications:	Package o	Package outline drawing of SOT886 (Fig. 10) modified.			
74AUP1G11 v.3	20111124	Product data sheet	-	74AUP1G11 v.2	
Modifications:	Legal page	Legal pages updated.			
74AUP1G11 v.2	20101020	Product data sheet	-	74AUP1G11 v.1	
74AUP1G11 v.1	20070904	Product data sheet	-	-	

Low-power 3-input AND gate

15. Legal information

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.

- [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 <u>https://www.nexperia.com</u>.

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