Low-power 3-input EXCLUSIVE-OR gate Rev. 6 — 31 July 2012

Product data sheet

General description 1.

The 74AUP1G386 provides a single 3-input EXCLUSIVE-OR gate.

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



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3. Ordering information

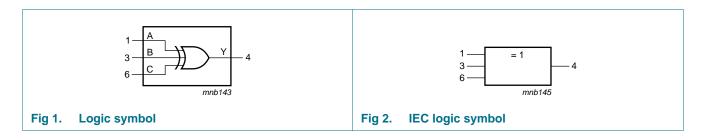
Table 1. Ordering	g information			
Type number	Package			
	Description	Version		
74AUP1G386GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363
74AUP1G386GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1.45 \times 0.5 mm	SOT886
74AUP1G386GF	–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
74AUP1G386GN	–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
74AUP1G386GS	–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]
74AUP1G386GW	аН
74AUP1G386GM	aH
74AUP1G386GF	aH
74AUP1G386GN	aH
74AUP1G386GS	аН

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

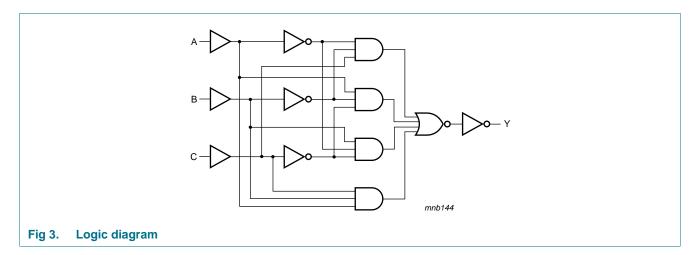
5. Functional diagram



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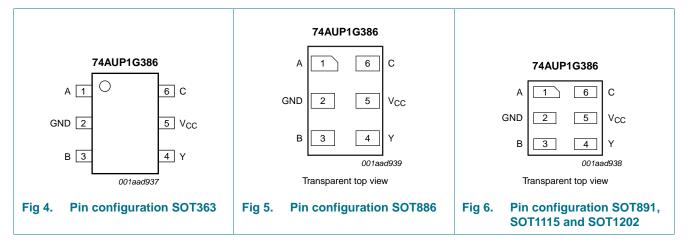
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Pinning information 6.

6.1 Pinning



6.2 Pin description

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

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7. Functional description

Table 4.	Function table ^[1]		
Input			Output
Α	В	C	Y
L	L	L	L
L	L	Н	Н
L	Н	L	Н
L	Н	Н	L
Н	L	L	Н
Н	L	Н	L
Н	Н	L	L
Н	Н	Н	Н

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

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).

	lax U	nit
V _{CC} supply voltage -0.5 +4		
	4.6 V	
I_{IK} input clamping current $V_I < 0 V$ -50 -	m	A
V _I input voltage [1] -0.5 +4	4.6 V	
I_{OK} output clamping current $V_O < 0 V$ -50 -	m	A
V _O output voltage Active mode and Power-down mode 1 -0.5 +4	4.6 V	
I_{O} output current $V_{O} = 0 V$ to V_{CC} - ± 2	20 m	A
I _{CC} supply current - 50	0 m	A
I_{GND} ground current -50 -	m	A
T _{stg} storage temperature -65 +1	150 °C)
P_{tot} total power dissipation $T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [2] - 25	50 m	W

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

[2] For SC-88 packages: 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 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

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Symbol	Parameter	Conditions	Min	Max	Unit
Vo	output voltage	Active mode	0	V _{CC}	V
Vo		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	0	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	Max	Unit
T _{amb} = 2	5 °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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	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	-	-	$0.35 \times V_{CC}$	V
		V_{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	0.9	V
V _{он}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = –20 $\mu\text{A};V_{CC}$ = 0.8 V to 3.6 V	$V_{CC} - 0.1$	-	-	V
		$I_{O} = -1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	$0.75 \times V_{CC}$	-	-	V
		$I_{O} = -1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	1.11	-	-	V
		$I_{O} = -1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.32	-	-	V
		$I_{O} = -2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	2.05	-	-	V
		$I_0 = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 20 $\mu A; V_{CC}$ = 0.8 V to 3.6 V	-	-	0.1	V
		$I_0 = 1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	-	-	$0.3\times V_{CC}$	V
		$I_0 = 1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	-	0.31	V
		$I_0 = 1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.31	V
		$I_0 = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.31	V
		$I_0 = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.44	V
		$I_0 = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.31	V
		$I_0 = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.44	V
I	input leakage current	$V_I = GND$ to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.1	μΑ
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

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
I _{CC}	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = O \ A; \\ V_{CC} = 0.8 \ V \ to \ 3.6 \ V \end{array}$	-	-	0.5	μA
∆l _{CC}	additional supply current		-	-	40	μΑ
CI	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					
VIH	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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	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	-	-	$0.35 \times V_{CC}$	V
		V_{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	-	0.9	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = –20 $\mu\text{A};$ V_{CC} = 0.8 V to 3.6 V	$V_{CC}-0.1$	-	-	V
		$I_0 = -1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	$0.7\times V_{CC}$	-	-	V
		$I_{O} = -1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	1.03	-	-	V
		$I_{O} = -1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.30	-	-	V
		$I_{O} = -2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.97	-	-	V
		$I_0 = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.85	-	-	V
		$I_0 = -2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.67	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.55	-	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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	-	-	$0.3\times V_{CC}$	V
		$I_0 = 1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	-	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	$V_I = GND$ to 3.6 V; $V_{CC} = 0$ V to 3.6 V	-	-	±0.5	μA
I _{OFF}	power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{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	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = O \ A; \\ V_{CC} = O.8 \ V \ to \ 3.6 \ V \end{array}$	-	-	0.9	μA
ΔI_{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	-	-	50	μΑ

Table 7. Static characteristics ...continued

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +125 °C					
V _{IH}	HIGH-level input voltage	$V_{CC} = 0.8 V$	$0.75 \times V_{CC}$	-	-	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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	2.0	-	-	V
/ _{IL}	LOW-level input voltage	$V_{CC} = 0.8 V$	-	-	$0.25\times V_{CC}$	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
		$V_{CC} = 3.0 V \text{ to } 3.6 V$	-	-	0.9	V
/ _{он}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_O = –20 $\mu\text{A};~V_{CC}$ = 0.8 V to 3.6 V	$V_{CC} - 0.11$	-	-	V
		$I_{O} = -1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	$0.6 \times V_{CC}$	-	-	V
		$I_0 = -1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	0.93	-	-	V
		$I_{O} = -1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.17	-	-	V
		I_{O} = -2.3 mA; V_{CC} = 2.3 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
/ _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_O = 20 $\mu A;V_{CC}$ = 0.8 V to 3.6 V	-	-	0.11	V
		$I_0 = 1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	-	-	$0.33 \times V_{CC}$	V
		$I_0 = 1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	-	0.41	V
		I_{O} = 1.9 mA; V_{CC} = 1.65 V	-	-	0.39	V
		$I_0 = 2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.36	V
		$I_0 = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.50	V
		$I_0 = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	V
		$I_0 = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.50	V
I	input leakage current	V_I = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.75	μΑ
OFF	power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.75	μΑ
Al _{OFF}	additional power-off leakage current	$ V_{I} \text{ or } V_{O} = 0 \text{ V to } 3.6 \text{ V}; $	-	-	±0.75	μA
сс	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = O \ A; \\ V_{CC} = 0.8 \ V \ to \ 3.6 \ V \end{array}$	-	-	1.4	μA
∆I _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	-	-	75	μA

Table 7. Static characteristics ...continued

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11. Dynamic characteristics

Dynamic characteristics Table 8.

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

Symbol	Parameter	Conditions		25 °C			–40 °C to +125 °C			
				Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
C _L = 5 p	F							·		
t _{pd}	propagation delay	A, B and C to Y; see Figure 7	[2]							
		$V_{CC} = 0.8 V$		-	23.4	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V}$ to 1.3 V		2.7	6.5	14.2	2.4	14.6	14.7	ns
		$V_{CC} = 1.4 \text{ V} \text{ to } 1.6 \text{ V}$		2.0	4.4	8.1	2.1	8.8	9.1	ns
		V_{CC} = 1.65 V to 1.95 V		1.8	3.5	6.1	1.6	7.0	7.3	ns
		V_{CC} = 2.3 V to 2.7 V		1.5	2.7	4.3	1.2	4.6	4.8	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.3	2.4	3.6	1.0	4.0	4.2	ns
C _L = 10	pF									
t _{pd}	propagation delay	A, B and C to Y; see Figure 7	[2]							
		$V_{CC} = 0.8 V$		-	26.8	-	-	-	-	ns
		V_{CC} = 1.1 V to 1.3 V		3.2	7.3	15.8	2.7	16.2	16.3	ns
		V_{CC} = 1.4 V to 1.6 V		2.3	5.0	9.0	2.5	9.8	10.2	ns
		V _{CC} = 1.65 V to 1.95 V		2.2	4.1	6.9	1.9	7.8	8.2	ns
		V_{CC} = 2.3 V to 2.7 V		1.9	3.2	5.0	1.6	5.3	5.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.7	2.9	4.3	1.4	4.7	4.9	ns
C _L = 15	pF									
t _{pd}	propagation delay	A, B and C to Y; see Figure 7	[2]							
		$V_{CC} = 0.8 V$		-	30.1	-	-	-	-	ns
		V_{CC} = 1.1 V to 1.3 V		3.5	8.1	17.3	3.0	17.7	17.8	ns
		V_{CC} = 1.4 V to 1.6 V		2.6	5.6	9.8	2.8	10.7	11.1	ns
		V_{CC} = 1.65 V to 1.95 V		2.4	4.6	7.5	2.2	8.6	9.0	ns
		V_{CC} = 2.3 V to 2.7 V		2.2	3.7	5.5	1.9	5.9	6.2	ns
		V_{CC} = 3.0 V to 3.6 V		2.0	3.4	4.8	1.7	5.2	5.5	ns
C _L = 30	pF									
t _{pd}	propagation delay	A, B and C to Y; see Figure 7	[2]							
		$V_{CC} = 0.8 V$		-	37.9	-	-	-	-	ns
		V_{CC} = 1.1 V to 1.3 V		4.5	10.3	21.6	3.9	22.0	22.1	ns
		V_{CC} = 1.4 V to 1.6 V		3.5	7.1	12.1	3.5	13.2	13.8	ns
		V _{CC} = 1.65 V to 1.95 V		3.1	5.8	9.5	2.8	10.7	11.3	ns
		V_{CC} = 2.3 V to 2.7 V		2.9	4.8	6.9	2.6	7.8	8.2	ns
	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		2.7	4.5	6.1	2.3				

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Symbol	Parameter	Conditions		25 °C		-4	0 °C to +1	125 °C	Unit
			Min	Typ[1]	Max	Min	Max (85 °C)	Max (125 °C)	
C _L = 5 p	F, 10 pF, 15 pF and	30 pF		•					
C _{PD} power dissipation capacitance	power dissipation	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{\text{CC}}$ [3][4]							
	capacitance	$V_{CC} = 0.8 V$	-	2.9	-	-	-	-	pF
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	-	3.0	-	-	-	-	pF
		$V_{CC} = 1.4 \text{ V} \text{ to } 1.6 \text{ V}$	-	3.1	-	-	-	-	pF
		$V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$	-	3.3	-	-	-	-	pF
		V_{CC} = 2.3 V to 2.7 V	-	3.9	-	-	-	-	pF
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	4.4	-	-	-	-	pF

Table 8. Dynamic characteristics ... continued

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

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

[3] All specified values are the average typical values over all stated loads.

[4] 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_0 = output frequency in MHz;

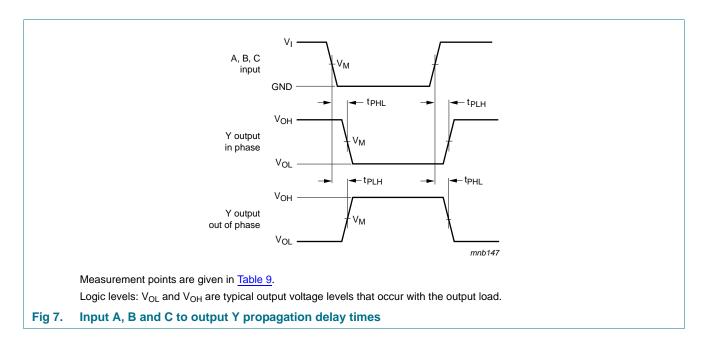
 C_L = load capacitance in pF;

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.

12. Waveforms



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

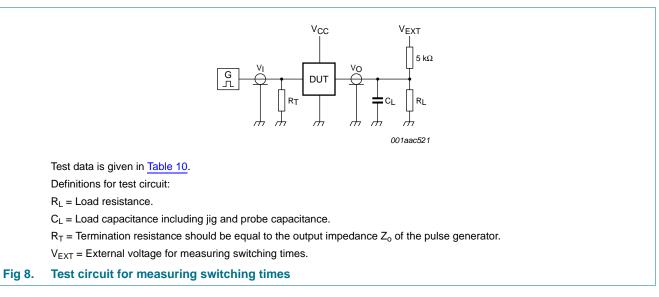


Table 10. Test data

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 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

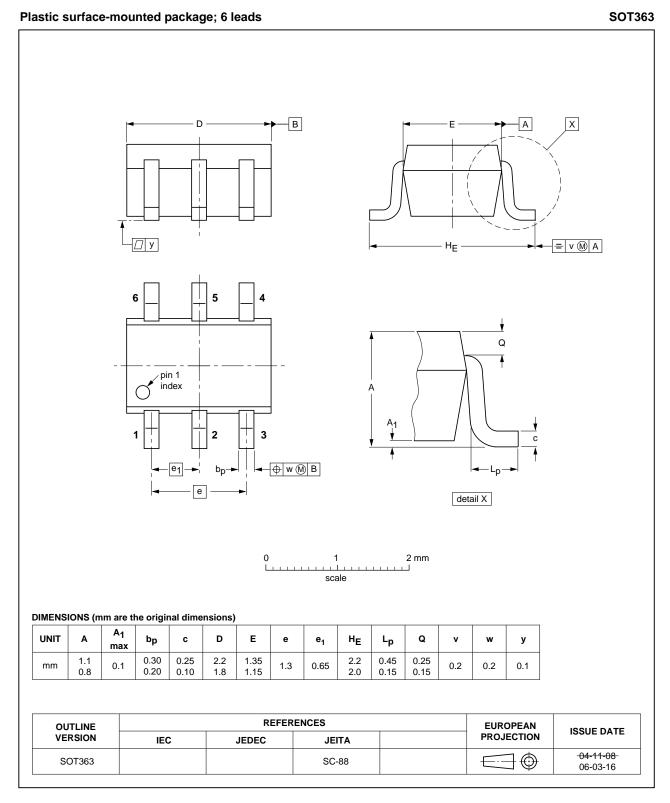


Fig 9. Package outline SOT363 (SC-88)

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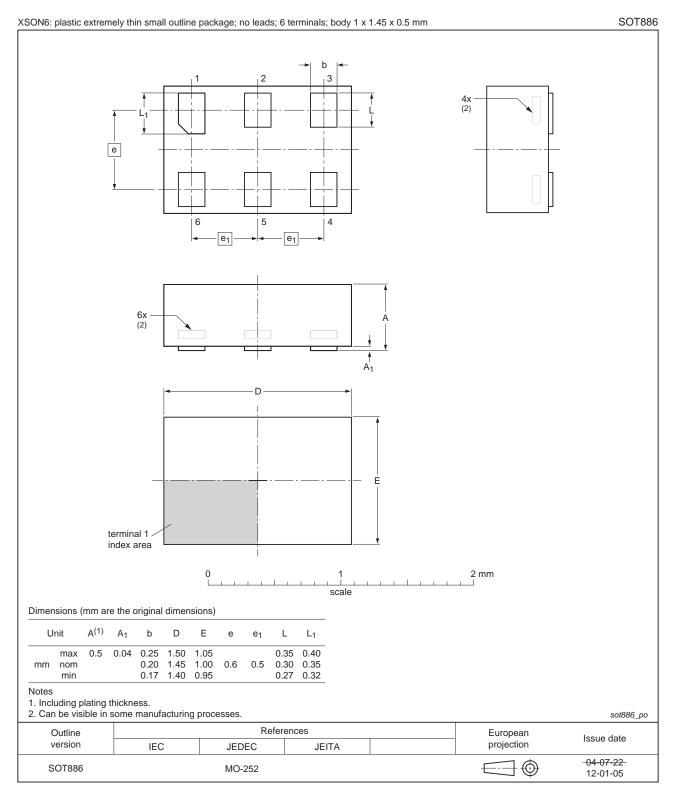


Fig 10. Package outline SOT886 (XSON6)

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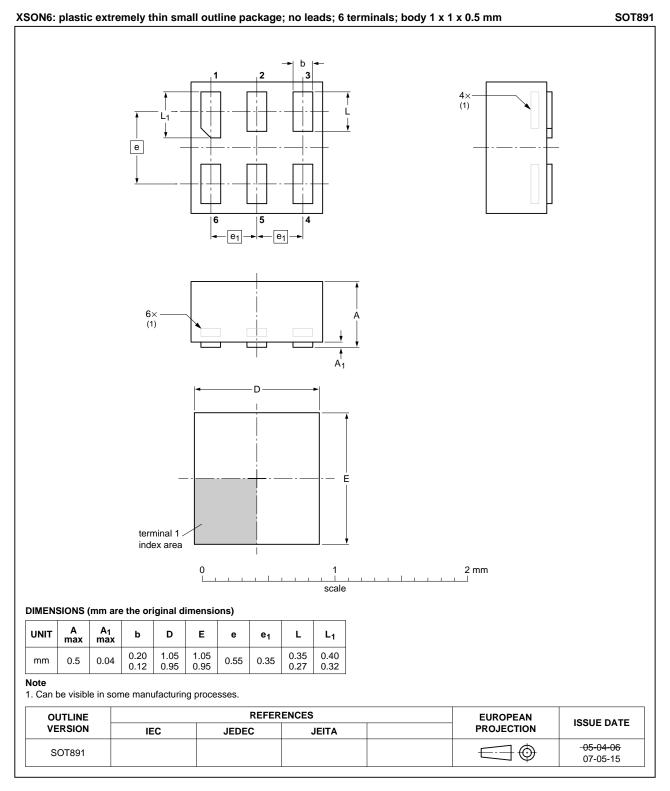
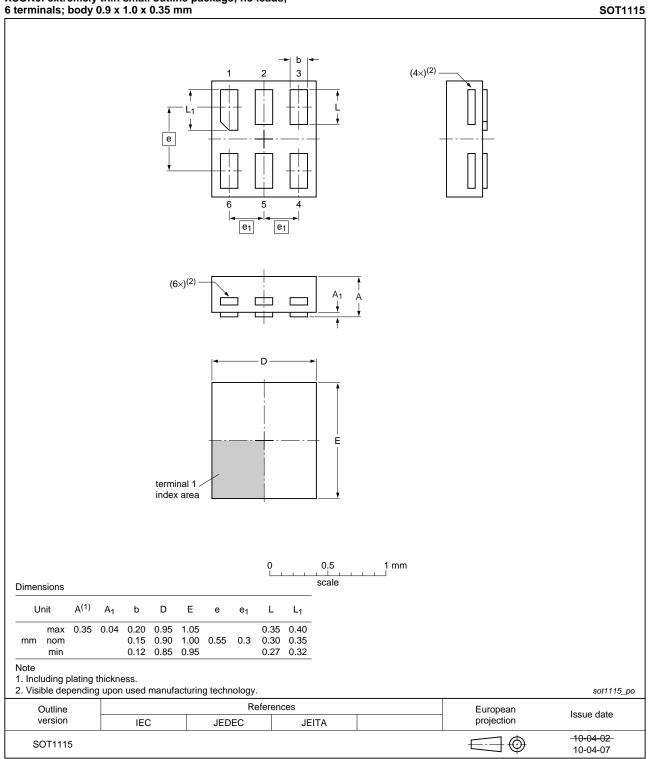


Fig 11. Package outline SOT891 (XSON6)

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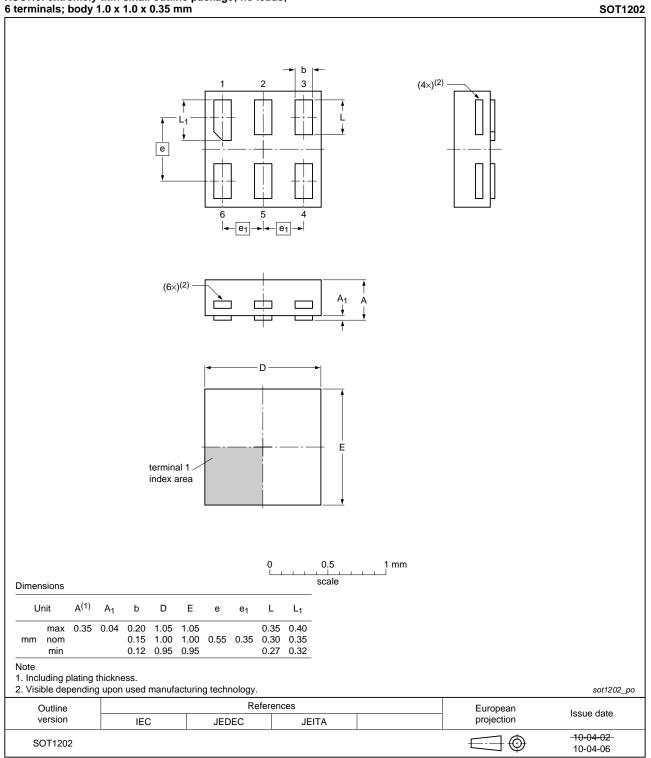


XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 12. Package outline SOT1115 (XSON6)

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

Fig 13. Package outline SOT1202 (XSON6)

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14. Abbreviations

Table 11. Abbreviations		
Acronym	Description	
CDM	Charged Device Model	
DUT	Device Under Test	
ESD	ElectroStatic Discharge	
HBM	Human Body Model	
MM	Machine Model	

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP1G386 v.6	20120731	Product data sheet	-	74AUP1G386 v.5
Modifications:	 Package ou 	Itline drawing of SOT886 (F	igure 10) modified.	
74AUP1G386 v.5	20111128	Product data sheet	-	74AUP1G386 v.4
Modifications:	 Legal pages 	s updated.		
74AUP1G386 v.4	20100805	Product data sheet	-	74AUP1G386 v.3
74AUP1G386 v.3	20090702	Product data sheet	-	74AUP1G386 v.2
74AUP1G386 v.2	20080110	Product data sheet	-	74AUP1G386 v.1
74AUP1G386 v.1	20061129	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.

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

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