Low-power 2-input multiplexer; inverting Rev. 02 — 2 July 2009

Product data sheet

General description 1.

The 74AUP1G158 is a single 2-input multiplexer which select data from two data inputs (I0 and I1) under control of a common data select input (S). The state of the common data select input determines the particular register from which the data comes. The output (\overline{Y}) presents the selected data in the complement (inverted) form.

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

- 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-A114E Class 3A exceeds 5000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101C 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

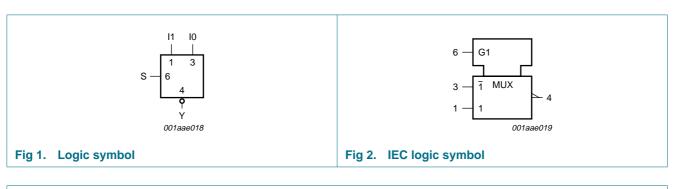
Table 1. Ordering information										
Type number Package										
	Temperature range	Name	Description	Version						
74AUP1G158GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363						
74AUP1G158GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1.45 \times 0.5 mm	SOT886						
74AUP1G158GF	–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						

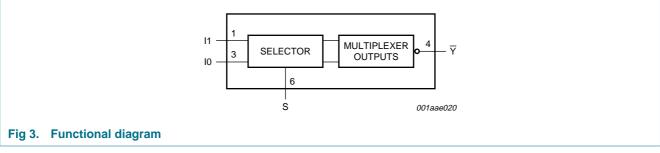
4. Marking

Table 2. Marking	
Type number	Marking code ^[1]
74AUP1G158GW	aU
74AUP1G158GM	aU
74AUP1G158GF	aU

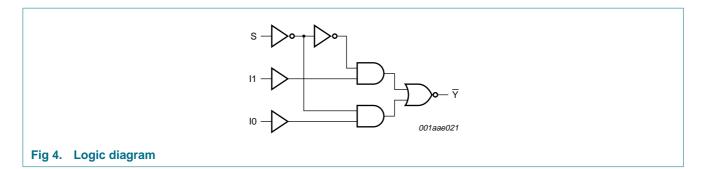
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



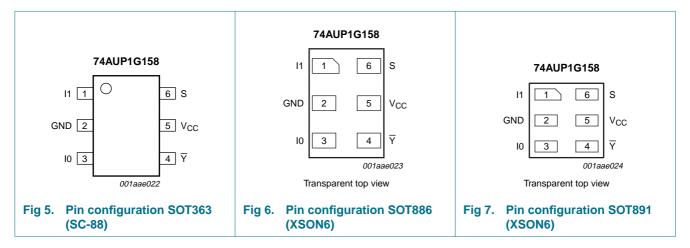


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6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3.	Pin description	
Symbol	Pin	Description
11	1	data input from source 1
GND	2	ground (0 V)
10	3	data input from source 0
Y	4	multiplexer output
V _{CC}	5	supply voltage
S	6	common data select input

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7. Functional description

Table 4.	Function table ^[1]			
Input				Output
S	11	1	10	Y
L	Х	(L	Н
L	Х		Н	L
Н	L		Х	Н
Н	Н	ł	Х	L

[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).

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
lo	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	$T_{amb} = -40 \ ^{\circ}C$ to +125 $\ ^{\circ}C$	[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 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 Ptot derates linearly with 7.8 mW/K.

9. Recommended operating conditions

Table 0.	Recommended operating conditions					
Symbol	Parameter	Conditions	Min	Max	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	
$\Delta t / \Delta V$	input transition rise and fall rate	$V_{CC} = 0.8 \text{ V} \text{ to } 3.6 \text{ V}$	0	200	ns/V	

Table 6. Recommended operating conditions

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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					
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 V to 3.6 V	2.0	-	-	V
VIL	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 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 $\mu\text{A};V_{CC}$ = 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
		$I_{O} = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 20 $\mu A;$ V_{CC} = 0.8 V to 3.6 V	-	-	0.1	V
		$I_{O} = 1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	-	-	$0.3 \times V_{CC}$	V
		$I_0 = 1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	-	-	0.31	V
		I_{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
		$I_{O} = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	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	$V_{\rm I}$ = GND to 3.6 V; $V_{\rm CC}$ = 0 V to 3.6 V	-	-	±0.1	μΑ
I _{OFF}	power-off leakage current	$V_{\rm I}~{\rm or}~V_{\rm O}$ = 0 V to 3.6 V; $V_{\rm CC}$ = 0 V	-	-	±0.2	μΑ
Δl _{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
lcc	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \; A; \\ V_{CC} = 0.8 \; V \; to \; 3.6 \; V \end{array}$	-	-	0.5	μΑ
∆l _{CC}	additional supply current		<u>[1]</u> -	-	40	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

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
-	40 °C to +85 °C			71		
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
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	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	-	-	$0.35 imes V_{CC}$	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 _{OH}	HIGH-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	$V_{CC} - 0.1$	-	-	V
		$I_0 = -1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	$0.7 imes V_{CC}$	-	-	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
		$I_{O} = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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 $\mu A; V_{CC}$ = 0.8 V to 3.6 V	-	-	0.1	V
		$I_{O} = 1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	-	-	$0.3 \times V_{CC}$	V
		I_{O} = 1.7 mA; V_{CC} = 1.4 V	-	-	0.37	V
		I_{O} = 1.9 mA; V_{CC} = 1.65 V	-	-	0.35	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_{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
lı	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.5	μΑ
I _{OFF}	power-off leakage current	$V_{I} \text{ or } V_{O}$ = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.5	μΑ
ΔI_{OFF}	additional power-off leakage current	$ V_{I} \text{ or } V_{O} = 0 \text{ V to } 3.6 \text{ V}; $	-	-	±0.6	μΑ
I _{CC}	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \; A; \\ V_{CC} = 0.8 \; V \; to \; 3.6 \; V \end{array}$	-	-	0.9	μA
ΔI_{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	<u>[1]</u> -	-	50	μΑ

Table 7. Static characteristics ... continued

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
r _{amb} = −4	40 °C to +125 °C					
/ _{IH}	HIGH-level input voltage	$V_{CC} = 0.8 V$	$0.75 imes V_{CC}$	-	-	V
		$V_{CC} = 0.9 V$ to 1.95 V	$0.70 imes V_{CC}$	-	-	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 to 3.6 V	-	-	0.9	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} – 0.11	-	-	V
		$I_{O} = -1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	$0.6 \times V_{CC}$	-	-	V
		$I_{O} = -1.7 \text{ mA}; V_{CC} = 1.4 \text{ V}$	0.93	-	-	V
		$I_{O} = -1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.17	-	-	V
		$I_{O} = -2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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
/ _{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_{O} = 1.1 mA; V_{CC} = 1.1 V	-	-	$0.33 \times V_{CC}$	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	μΑ
OFF	power-off leakage current	$V_{I} \text{ or } V_{O}$ = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.75	μΑ
∆I _{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	μA
сс	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \; A; \\ V_{CC} = 0.8 \; V \; to \; 3.6 \; V \end{array}$	-	-	1.4	μΑ
∆l _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	<u>[1]</u> _	-	75	μA

Static characteristics ... continued Table 7.

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

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11. Dynamic characteristics

Table 8. Dynamic characteristics

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 <mark>[1]</mark>	Max	Min	Max (85 °C)	Max (125 °C)	
C _L = 5 p	F									
pd	propagation delay	I0, I1 or S to \overline{Y} ; see Figure 8	[2]							
		$V_{CC} = 0.8 V$		-	20.0	-	-	-	-	ns
		V_{CC} = 1.1 V to 1.3 V		2.4	5.7	11.2	2.2	11.6	11.8	ns
		V_{CC} = 1.4 V to 1.6 V		1.8	4.0	6.6	1.9	7.2	7.5	ns
		V_{CC} = 1.65 V to 1.95 V		1.6	3.2	5.2	1.4	5.9	6.2	ns
		V_{CC} = 2.3 V to 2.7 V		1.4	2.5	3.7	1.2	4.2	4.4	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		1.2	2.2	3.2	0.9	3.5	3.6	ns
C _L = 10	pF									
t _{pd}	propagation delay	I0, I1 or S to \overline{Y} ; see Figure 8	[2]							
		$V_{CC} = 0.8 V$		-	23.6	-	-	-	-	ns
		V_{CC} = 1.1 V to 1.3 V		2.6	6.6	13.0	2.5	13.6	13.8	ns
		V_{CC} = 1.4 V to 1.6 V		2.2	4.6	7.9	2.0	8.5	8.8	ns
		V_{CC} = 1.65 V to 1.95 V		2.1	3.8	6.1	1.9	6.7	7.0	ns
		V_{CC} = 2.3 V to 2.7 V		1.7	3.1	4.4	1.5	4.9	5.2	ns
		V_{CC} = 3.0 V to 3.6 V		1.5	2.8	4.0	1.4	4.2	4.4	ns
C _L = 15	pF									
pd	propagation delay	I0, I1 or S to \overline{Y} ; see Figure 8	[2]							
		$V_{CC} = 0.8 V$		-	27.1	-	-	-	-	ns
		V_{CC} = 1.1 V to 1.3 V		3.0	7.4	14.7	2.8	15.4	15.7	ns
		V_{CC} = 1.4 V to 1.6 V		2.5	5.2	8.8	2.4	9.7	10.1	ns
		V_{CC} = 1.65 V to 1.95 V		2.2	4.3	6.8	2.2	7.7	8.1	ns
		V_{CC} = 2.3 V to 2.7 V		2.1	3.5	5.1	1.9	5.6	5.9	ns
		V_{CC} = 3.0 V to 3.6 V		1.9	3.2	4.5	1.6	4.9	5.1	ns
C _L = 30	pF									
pd	propagation delay	I0, I1 or S to \overline{Y} ; see Figure 8	[2]							
		$V_{CC} = 0.8 V$		-	35.6	-	-	-	-	ns
		V_{CC} = 1.1 V to 1.3 V		3.6	9.7	19.6	3.5	20.5	21.0	ns
		$V_{CC} = 1.4 \text{ V}$ to 1.6 V		3.2	6.7	11.4	3.2	12.6	13.2	ns
		V_{CC} = 1.65 V to 1.95 V		3.0	5.6	8.9	2.9	10.0	10.5	ns
		V_{CC} = 2.3 V to 2.7 V		2.9	4.6	6.5	2.6	7.1	7.6	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		2.7	4.3	5.8	2.5	6.7	7.1	ns

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Symbol	Parameter	Conditions		25 °C		-40) °C to +1	25 °C	Unit
			Min	Typ <mark>[1]</mark>	Мах	Min	Max (85 °C)	Max (125 °C)	
C _L = 5 pl	F, 10 pF, 15 pF and	30 pF							
C _{PD} po	power dissipation	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3]							
	capacitance	$V_{CC} = 0.8 V$	-	2.6	-	-	-	-	pF
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	-	2.8	-	-	-	-	pF
		$V_{CC} = 1.4 \text{ V}$ 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	-	3.6	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.2	-	-	-	-	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] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

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

 f_i = input frequency in MHz;

 f_0 = output frequency in MHz;

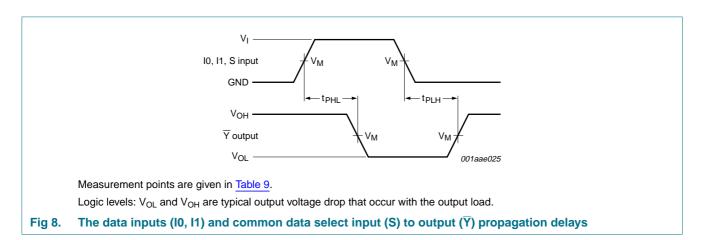
 C_L = output load capacitance in pF;

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.

12. Waveforms



Measurement points Table 9.

Supply voltage	Output	Input				
V _{CC}	V _M	V _M	VI	t _r = t _f		
0.8 V to 3.6 V	$0.5 imes V_{CC}$	$0.5 imes V_{CC}$	V _{CC}	≤ 3.0 ns		

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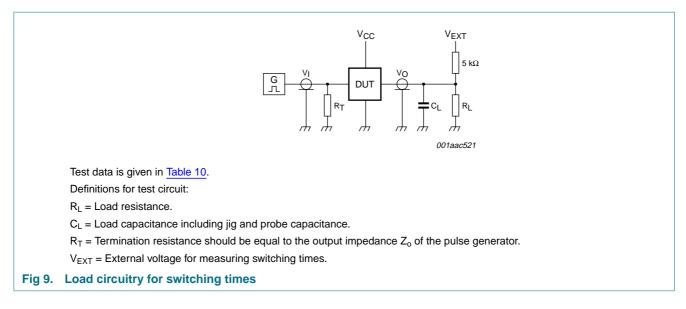


Table 10. Test data

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

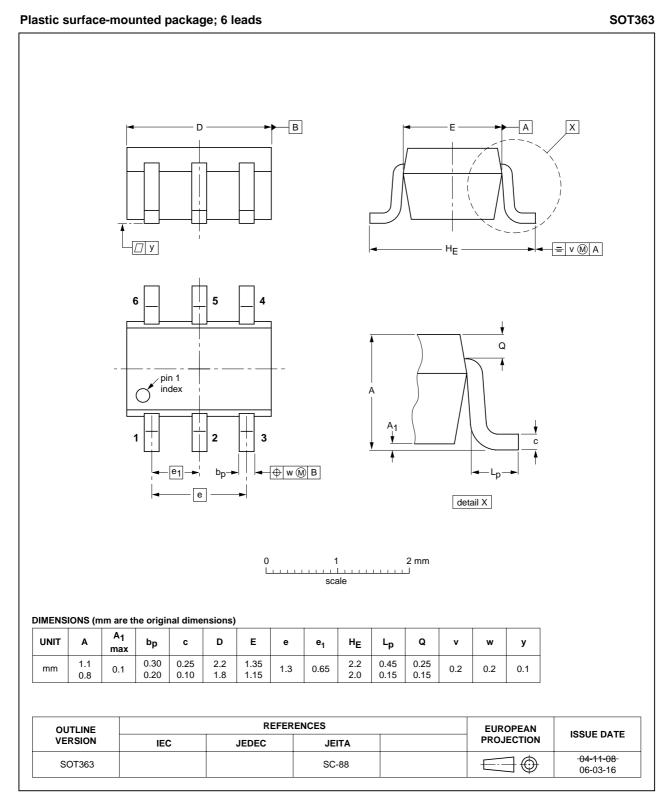


Fig 10. Package outline SOT363 (SC-88)

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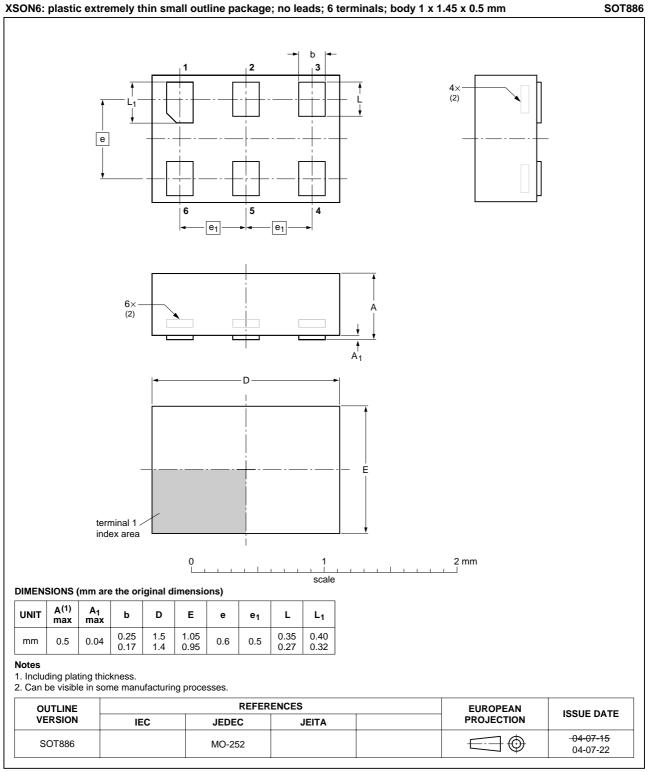


Fig 11. Package outline SOT886 (XSON6)

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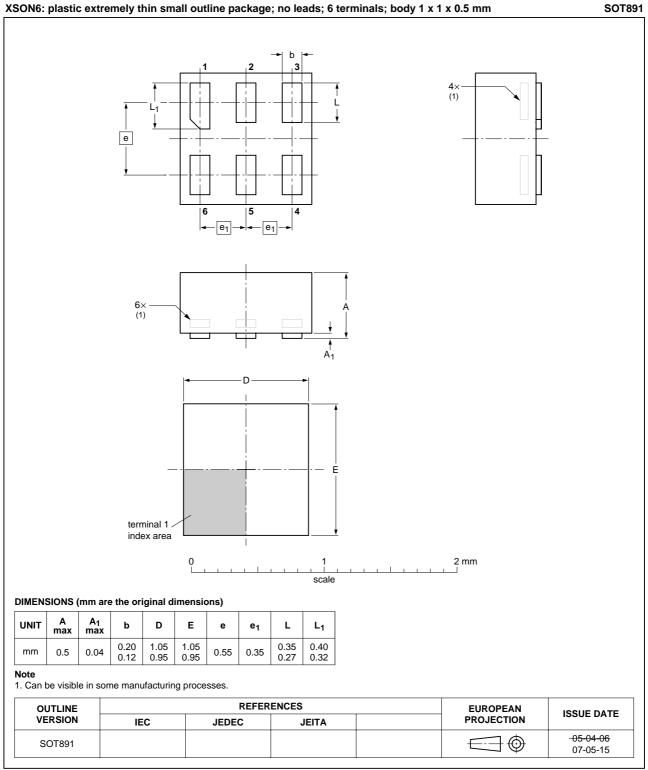


Fig 12. Package outline SOT891 (XSON6)

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14. Abbreviations

Table 11. 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
TTL	Transistor-Transistor Logic

15. Revision history

Table 12. Revision	n history			
Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP1G158_2	20090702	Product data sheet	-	74AUP1G158_1
Modifications: • Changed <u>Section 8 "Limiting values"</u> : derating factor XSON6 packages.			ckages.	
	 Changed Set 	ection 11 "Dynamic charact	eristics": typical power di	ssipation capacitance.
74AUP1G158_1	20061107	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".

[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 URL http://www.nxp.com.

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