Low-power dual inverter Rev. 02 — 7 July 2009

Product data sheet

1. General description

The 74AUP2G04 provides two inverting buffers.

Schmitt trigger action at all inputs makes the circuit tolerant of 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



3. Ordering information

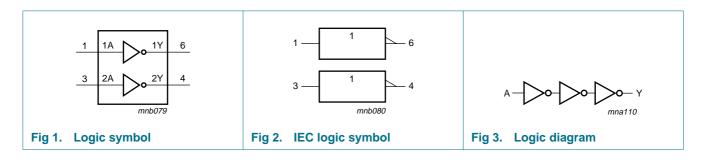
Table 1. Ordering information									
Type number	Package								
	Temperature range	Name	Description	Version					
74AUP2G04GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363					
74AUP2G04GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1.45 \times 0.5 mm	SOT886					
74AUP2G04GF	–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]
74AUP2G04GW	p4
74AUP2G04GM	p4
74AUP2G04GF	p4

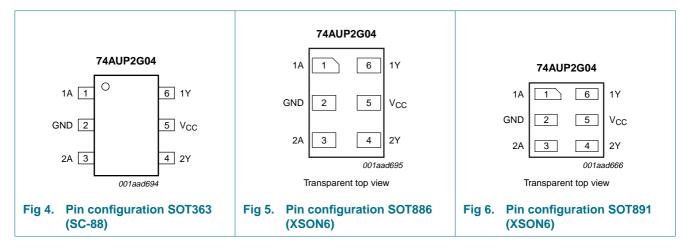
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1 Pinning



6.2 Pin description

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

7. Functional description

Table 4.Function table^[1]

Input	Output
nA	nY
L	Н
Н	L

[1] H = HIGH voltage level;

L = LOW voltage level.

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).

				10	,
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 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 6.	Recommended operating conditi	ons			
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	$V_{CC} = 0.8 V \text{ to } 3.6 V$	0	200	ns/V

Table 6. Recommended operating conditions

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
		$V_{CC} = 0.9 \text{ V}$ 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
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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	0.9	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_O = –20 $\mu\text{A};V_{CC}$ = 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
		$I_0 = 1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	-	-	$0.3 \times V_{CC}$	V
		I_{O} = 1.7 mA; V_{CC} = 1.4 V	-	-	0.31	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
		$I_0 = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	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	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	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = O \ A; \\ V_{CC} = O.8 \ V \ to \ 3.6 \ V \end{array}$	-	-	0.5	μΑ
ΔI_{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

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At recommended operating conditions; voltages are referenced to GND (ground = 0 V).								
-	Parameter	Conditions	Min	Тур	Max	Unit		
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		
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		
		$I_{O} = -1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	$0.7\times V_{CC}$	-	-	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 mA; V_{CC} = 2.3 V	1.97	-	-	V		
		$I_{O} = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.85	-	-	V		
		$I_{O} = -2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.67	-	-	V		
		$I_O = -4.0$ mA; $V_{CC} = 3.0$ V	2.55	-	-	V		
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$						
		I_O = 20 $\mu A; V_{CC}$ = 0.8 V to 3.6 V	-	-	0.1	V		
		I_{O} = 1.1 mA; V_{CC} = 1.1 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} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V to 0.2 V	-	-	±0.6	μΑ		
I _{CC}	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = O \ A; \\ V_{CC} = 0.8 \ V \ to \ 3.6 \ V \end{array}$	-	-	0.9	μΑ		
ΔI_{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	-	-	50	μΑ		

Table 7. Static characteristics ...continued

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

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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 V to 3.6 V	2.0	-	-	V
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
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	0.9	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = –20 $\mu\text{A};$ 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
		$I_0 = -2.3 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.77	-	-	V
		$I_0 = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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
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
		$I_0 = 1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	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
∆I _{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	μΑ
СС	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = O \ A; \\ V_{CC} = O.8 \ V \ to \ 3.6 \ V \end{array}$	-	-	1.4	μA
∆l _{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

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

11. Dynamic characteristics

Table 8. Dynamic characteristics

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

Symbol	Parameter	Conditions		25 °C		–40 °C to +125 °C			Uni
			Min	Typ <mark>[1]</mark>	Max	Min	Max (85 °C)	Max (125 °C)	
C _L = 5 pl	F			1					
t _{pd}	propagation delay	nA to nY; see Figure 7	2]						
		$V_{CC} = 0.8 V$	-	16.0	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	2.4	5.0	10.3	2.1	11.4	12.6	ns
		$V_{CC} = 1.4 \text{ V} \text{ to } 1.6 \text{ V}$	1.8	3.6	6.4	1.6	7.4	8.2	ns
		V_{CC} = 1.65 V to 1.95 V	1.5	2.9	5.0	1.4	5.9	6.5	ns
		V_{CC} = 2.3 V to 2.7 V	1.2	2.4	3.9	1.1	4.5	5.0	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	1.1	2.1	3.2	1.0	3.9	4.3	ns
C _L = 10	pF								
t _{pd}	propagation delay	nA to nY; see Figure 7	2]						
		$V_{CC} = 0.8 V$	-	19.8	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	2.8	5.9	12.2	2.6	13.7	15.1	ns
		$V_{CC} = 1.4 \text{ V}$ to 1.6 V	2.3	4.2	7.5	2.1	8.7	9.6	ns
		V_{CC} = 1.65 V to 1.95 V	2.0	3.5	5.9	1.8	7.0	7.7	ns
		V_{CC} = 2.3 V to 2.7 V	1.7	2.9	4.6	1.5	5.4	6.0	ns
		V_{CC} = 3.0 V to 3.6 V	1.6	2.7	3.8	1.4	4.5	5.0	ns
C _L = 15	pF								
t _{pd}	propagation delay	nA to nY; see Figure 7	2]						
		$V_{CC} = 0.8 V$	-	23.3	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	3.2	6.7	13.0	3.0	15.8	17.4	ns
		V_{CC} = 1.4 V to 1.6 V	2.6	4.7	8.6	2.4	10.0	11.0	ns
		V_{CC} = 1.65 V to 1.95 V	2.3	4.0	6.7	2.1	8.0	8.8	ns
		V_{CC} = 2.3 V to 2.7 V	2.1	3.3	5.1	1.8	6.1	6.8	ns
		$V_{CC} = 3.0 V \text{ to } 3.6 V$	2.0	3.1	4.2	1.8	5.0	5.5	ns
C _L = 30	pF								
t _{pd}	propagation delay	nA to nY; see Figure 7	2]						
		$V_{CC} = 0.8 V$	-	33.6	-	-	-	-	ns
		$V_{CC} = 1.1 \text{ V to } 1.3 \text{ V}$	4.4	8.9	16.0	4.0	19.0	20.9	ns
		$V_{CC} = 1.4 \text{ V}$ to 1.6 V	3.6	6.3	10.8	3.2	12.9	14.2	ns
		V_{CC} = 1.65 V to 1.95 V	3.2	5.3	9.0	2.9	10.5	11.6	ns
		V_{CC} = 2.3 V to 2.7 V	2.9	4.5	6.5	2.6	7.6	8.4	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	2.9	4.2	5.4	2.6	6.2	6.9	ns

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Table 8. Dynamic characteristics ... continued

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

Symbol	Parameter	Conditions		25 °C		–40 °C to +125 °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	l						
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$	[3][4]						
		$V_{CC} = 0.8 V$	-	2.5	-	-	-	-	pF
		V_{CC} = 1.1 V to 1.3 V	-	2.7	-	-	-	-	pF
		V_{CC} = 1.4 V to 1.6 V	-	2.8	-	-	-	-	pF
		V_{CC} = 1.65 V to 1.95 V	-	3.0	-	-	-	-	pF
		V_{CC} = 2.3 V to 2.7 V	-	3.5	-	-	-	-	pF
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	4.0	-	-	-	-	pF

[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).

 $\mathsf{P}_\mathsf{D} = \mathsf{C}_\mathsf{PD} \times \mathsf{V}_\mathsf{CC}^2 \times \mathsf{f}_i \times \mathsf{N} + \Sigma(\mathsf{C}_\mathsf{L} \times \mathsf{V}_\mathsf{CC}^2 \times \mathsf{f}_o) \text{ where:}$

 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.

12. Waveforms

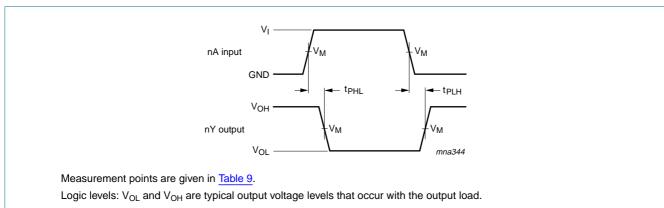


Fig 7. The data input (nA) to output (nY) propagation delays

Table 9.Measurement points

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



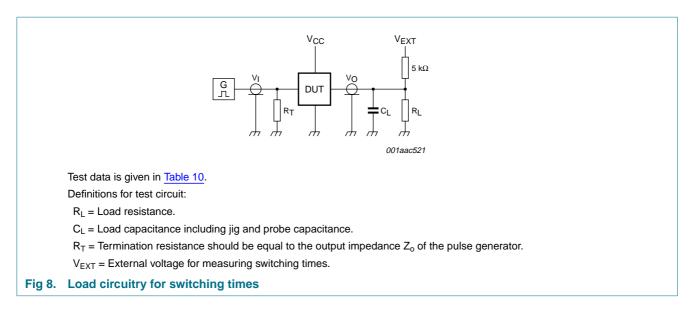


Table 10. Test data

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, $R_L = 5 \text{ k}\Omega$. For measuring propagation delays, set-up and hold times, and pulse width, $R_L = 1 \text{ M}\Omega$.

Low-power dual inverter

13. Package outline

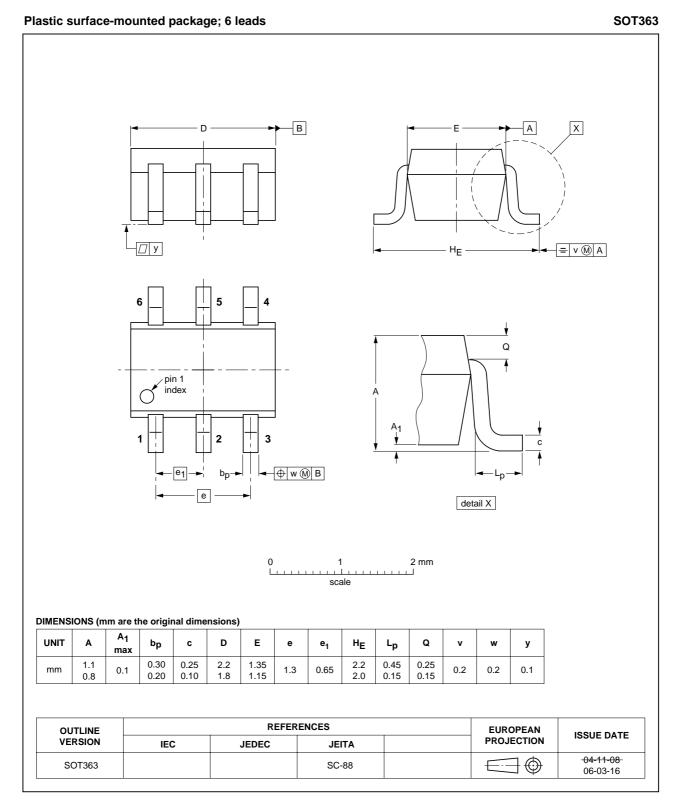
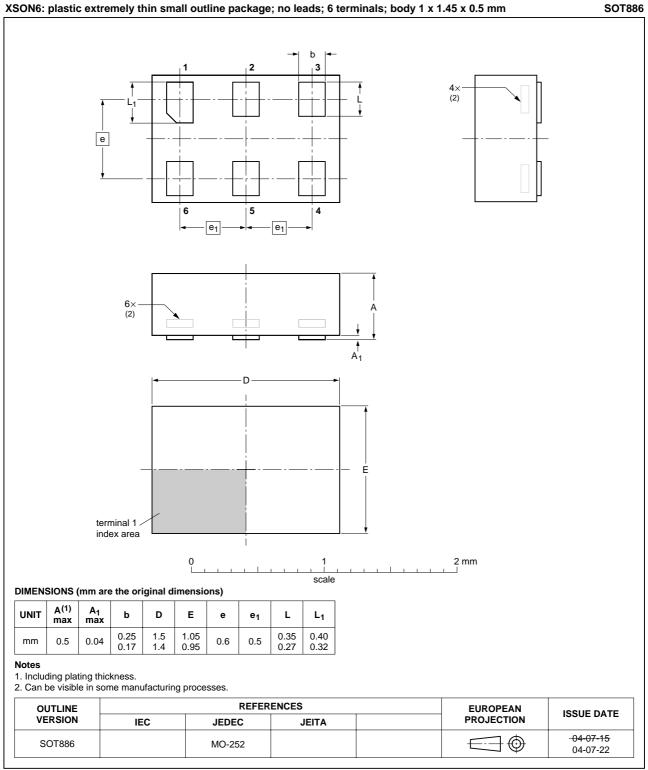


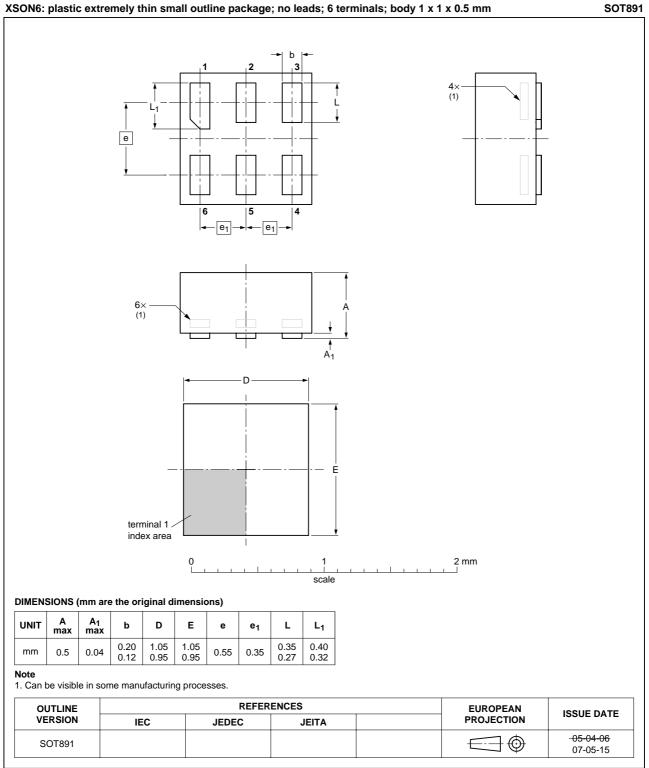
Fig 9. Package outline SOT363 (SC-88)



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

Fig 10. Package outline SOT886 (XSON6)





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

Fig 11. Package outline SOT891 (XSON6)



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
74AUP2G04_2	20090707	Product data sheet	-	74AUP2G04_1
Modifications:	Changed: De • <u>Section 10 "S</u> Changed: cou • <u>Section 11 "D</u>	niting values": rating factor of XSON6 packa Static characteristics": Inditions for HIGH-level output Dynamic characteristics": Vical power dissipation capacit	voltage and LOW-level	output voltage.
74AUP2G04_1	20061122	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.

[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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