74AUP2G08

Low-power dual 2-input AND gate Rev. 9 — 3 July 2017

Product data sheet

General description 1

The 74AUP2G08 provides the dual 2-input AND function.

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 a damaging backflow current through the device when it is powered down.

Features and benefits 2

- 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 JESD78 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	Package								
	Temperature range	Name	Description	Version						
74AUP2G08DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1						
74AUP2G08GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1						
74AUP2G08GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089						
74AUP2G08GM	-40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 × 1.6 × 0.5 mm	SOT902-2						
74AUP2G08GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116						
74AUP2G08GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203						
74AUP2G08GX	-40 °C to +125 °C	X2SON8	plastic thermal enhanced extremely thin small outline package; no leads; 8 terminals; body 1.35 × 0.8 × 0.35 mm	SOT1233						

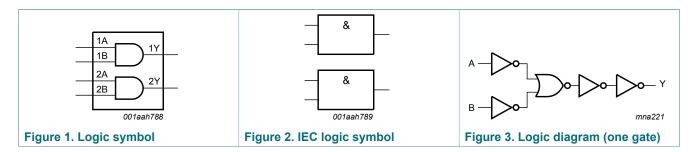
4 Marking

Table 2. Marking

Table 2. Marking	
Type number	Marking code ^[1]
74AUP2G08DC	p08
74AUP2G08GT	p08
74AUP2G08GF	pE
74AUP2G08GM	p08
74AUP2G08GN	pE
74AUP2G08GS	pE
74AUP2G08GX	pE

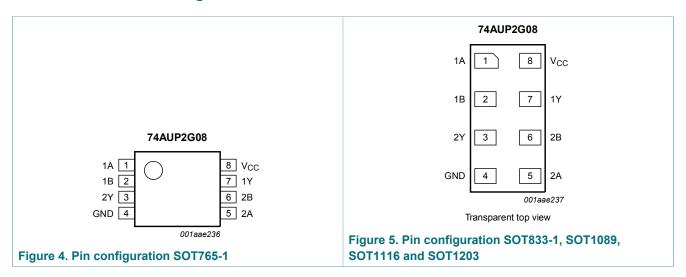
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5 Functional diagram



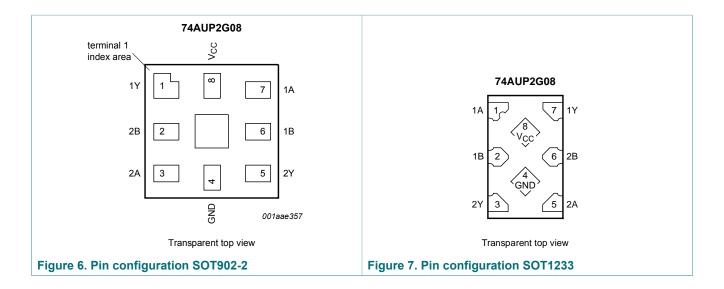
6 Pinning information

6.1 Pinning



Nexperia 74AUP2G08

Low-power dual 2-input AND gate



6.2 Pin description

Table 3. Pin description

Symbol	Pin	Pin				
	SOT765-1, SOT833-1, SOT1089, SOT1116, SOT1203 and SOT1233	SOT902-2				
1A, 2A	1, 5	7, 3	data input			
1B, 2B	2, 6	6, 2	data input			
GND	4	4	ground (0 V)			
1Y, 2Y	7, 3	1, 5	data output			
V _{CC}	8	8	supply voltage			

7 Functional description

Table 4. Function table [1]

Input		Output
nA	nB	nY
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

^[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).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		-0.5	+4.6	V
VI	input voltage	[1]	-0.5	+4.6	V
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
I _O	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. [2] For VSSOP8 packages: above 110 °C the value of P_{tot} derates linearly with 8.0 mW/K.

9 Recommended operating conditions

Table 6. Operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	supply voltage		0.8	3.6	V
V_{I}	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

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For VSSOP8 packages: above 110 °C the value of P_{tot} derates linearly with 8.0 mW/K. For XSON8 and XQFN8 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K. For X2SON8 package: above 118 °C the value of P_{tot} derates linearly with 7.7 mW/K.

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} = 25	°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 × 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 μ A; 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 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 × 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
I _I	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	μΑ
Δl _{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	-	-	±0.2	μΑ
I _{CC}	supply current	V_1 = GND or V_{CC} ; I_0 = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	0.5	μA

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}; \text{ per pin}$	-	-	40	μΑ
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V_{I} = GND or V_{CC}	-	0.6	-	pF
Co	output capacitance	$V_O = GND; V_{CC} = 0 V$	-	1.3	-	pF
T _{amb} = -4	0 °C to +85 °C		<u>'</u>			,
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 × 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}				
		$I_{\rm O}$ = -20 μ A; $V_{\rm CC}$ = 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 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 × 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
I _I	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_1 or $V_0 = 0 \text{ V to } 3.6 \text{ V; } V_{CC} = 0 \text{ V}$	-	-	±0.5	μA
Δl _{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	V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 0.8 V to 3.6 V	-	-	0.9	μA

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}; \text{ per pin}$	-	-	50	μΑ
T _{amb} = -40	O °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 × 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 × 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 μ A; 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 × 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 _I	input leakage current	V_1 = 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
Δl _{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	-	-	±0.75	μΑ
I _{CC}	supply current	V_{I} = GND or V_{CC} ; I_{O} = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	1.4	μΑ
Δl _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}; \text{ per pin}$ [1]	-	-	75	μΑ

^[1] One input at V_{CC} - 0.6 V, other inputs 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	T _{amb} = 25 °C		T_{amb} = -40 °C to +125 °C			Unit	
			Min	Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
$C_L = 5 pF$									
t _{pd}	propagation	nA, nB to nY; see Figure 8 [2]							
	delay	V _{CC} = 0.8 V	-	17.0	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.6	5.1	10.8	2.1	11.7	12.9	ns
		V _{CC} = 1.4 V to 1.6 V	1.6	3.7	6.5	1.5	7.5	8.3	ns
		V _{CC} = 1.65 V to 1.95 V	1.3	3.0	5.2	1.3	6.1	6.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.1	2.4	4.0	1.0	4.8	5.3	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.2	3.5	0.9	4.3	4.8	ns
C _L = 10 p	F					'		<u>'</u>	
t _{pd}	propagation	nA, nB to nY; see Figure 8 [2]							
	delay	V _{CC} = 0.8 V	-	20.6	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.4	6.0	12.5	2.2	13.6	15.0	ns
		V _{CC} = 1.4 V to 1.6 V	2.0	4.3	7.6	1.8	8.9	9.8	ns
		V _{CC} = 1.65 V to 1.95 V	1.7	3.6	6.1	1.6	7.2	7.9	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	2.9	4.8	1.3	5.7	6.3	ns
		V _{CC} = 3.0 V to 3.6 V	1.3	2.7	4.2	1.2	4.7	5.2	ns
C _L = 15 p	F					'	1	<u>'</u>	
t _{pd}	propagation	nA, nB to nY; see Figure 8 [2]							
	delay	V _{CC} = 0.8 V	-	24.1	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.4	6.8	14.2	3.1	15.7	17.3	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.9	8.6	2.1	10.1	11.2	ns
		V _{CC} = 1.65 V to 1.95 V	1.9	4.0	6.9	1.8	8.2	9.0	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	3.4	5.5	1.6	6.5	7.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	3.1	4.8	1.5	5.9	6.5	ns
$C_L = 30 p$	F			1		'		<u> </u>	
t _{pd}	propagation	nA, nB to nY; see Figure 8 [2]							
	delay	V _{CC} = 0.8 V	-	34.4	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.6	9.1	19.4	4.1	21.8	24.0	ns
		V _{CC} = 1.4 V to 1.6 V	3.4	6.4	11.5	2.9	13.6	15.0	ns
		V _{CC} = 1.65 V to 1.95 V	2.6	5.3	9.1	2.4	10.9	12.1	ns
		V _{CC} = 2.3 V to 2.7 V	2.3	4.5	7.2	2.2	8.6	9.5	ns
		V _{CC} = 3.0 V to 3.6 V	2.2	4.2	6.2	2.1	7.5	8.3	ns

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Symbol	Symbol Parameter Conditions		T _{amb} = 25 °C		T _{amb} = -40 °C to +125 °C			Unit	
			Min	Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
$C_L = 5 pF$, 10 pF, 15 pF	and 30 pF		,					
C _{PD}	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3]							
	dissipation capacitance	V _{CC} = 0.8 V	-	2.5	-	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.6	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	2.7	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	2.8	-	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.2	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	3.7	-	-	-	-	pF

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

 t_{pd} is the same as t_{PLH} and t_{PHL} . C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 f_i = input frequency in MHz;

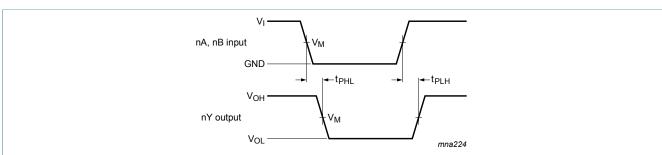
f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching; $\Sigma(C_L \times V_{CC}^2 \times f_0)$ = sum of outputs.

11.1 Waveforms and test circuit



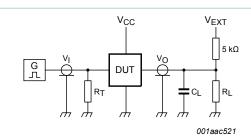
Measurement points are given in Table 9.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Figure 8. The data input (nA or nB) 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 × V _{CC}	0.5 × V _{CC}	V _{CC}	≤ 3.0 ns			



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.

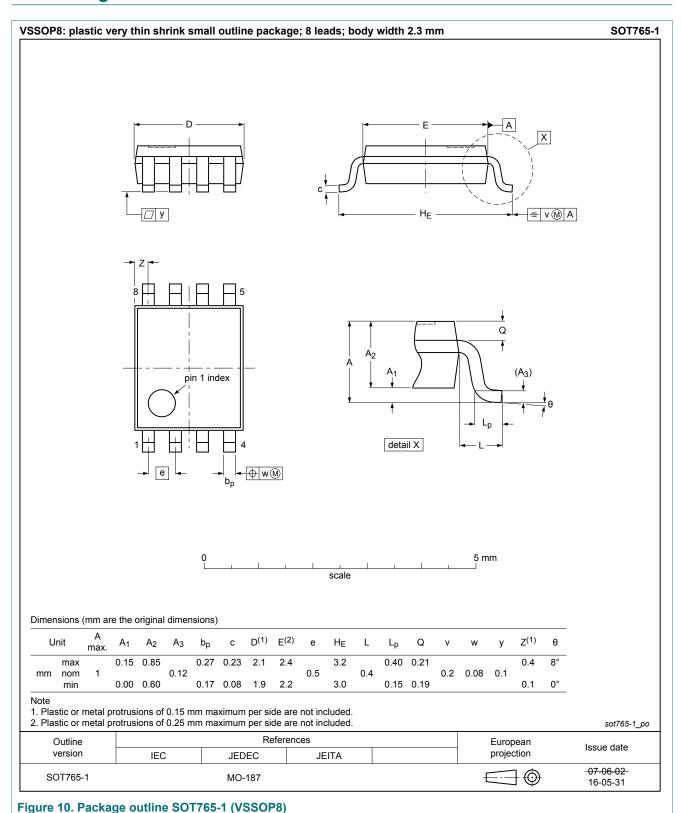
Figure 9. Test circuit for measuring switching times

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 kΩ or 1 MΩ	open	GND	2 × V _{CC}

[1] For measuring enable and disable times R_L = 5 k Ω . For measuring propagation delays, setup and hold times and pulse width R_L = 1 M Ω .

12 Package outline



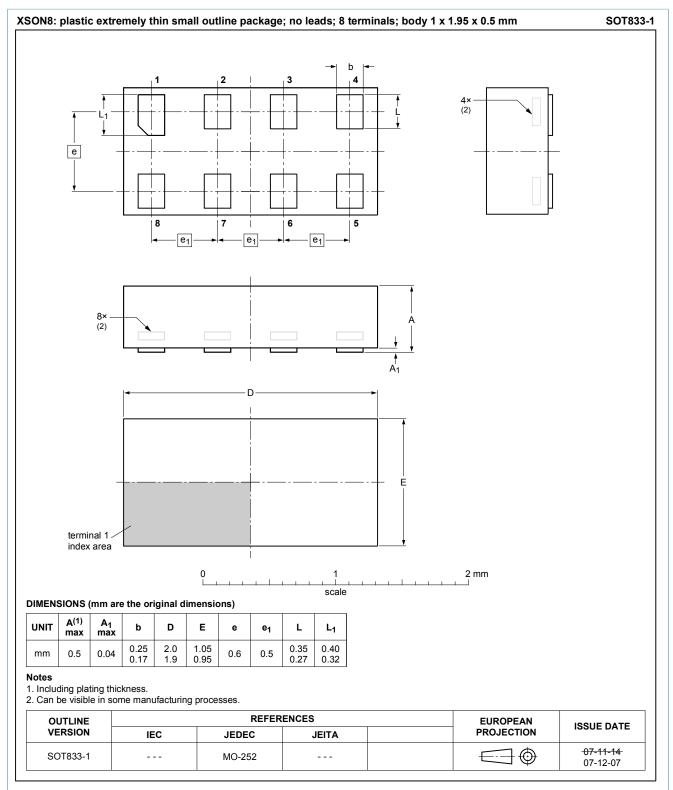
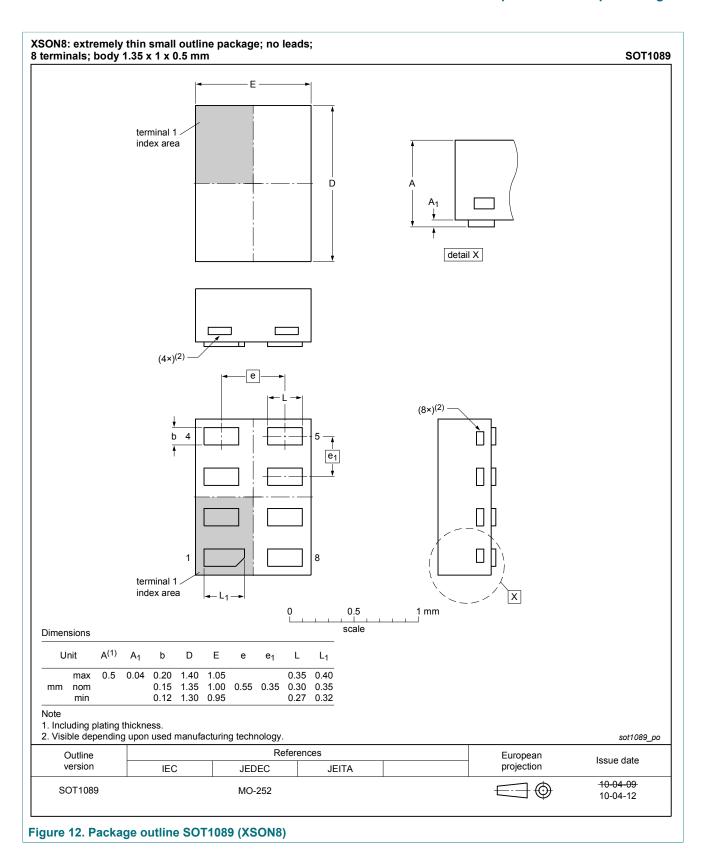
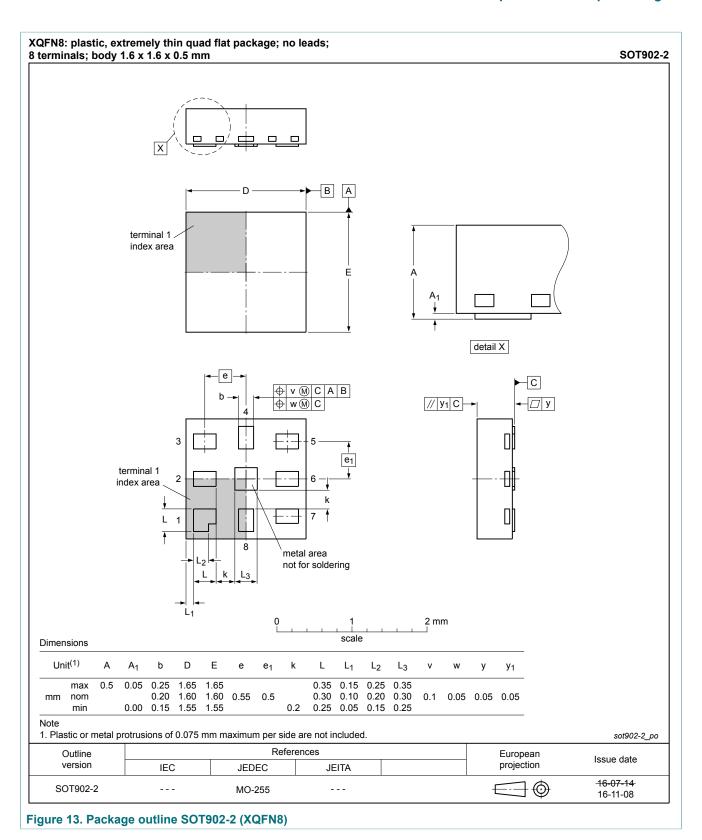


Figure 11. Package outline SOT833-1 (XSON8)





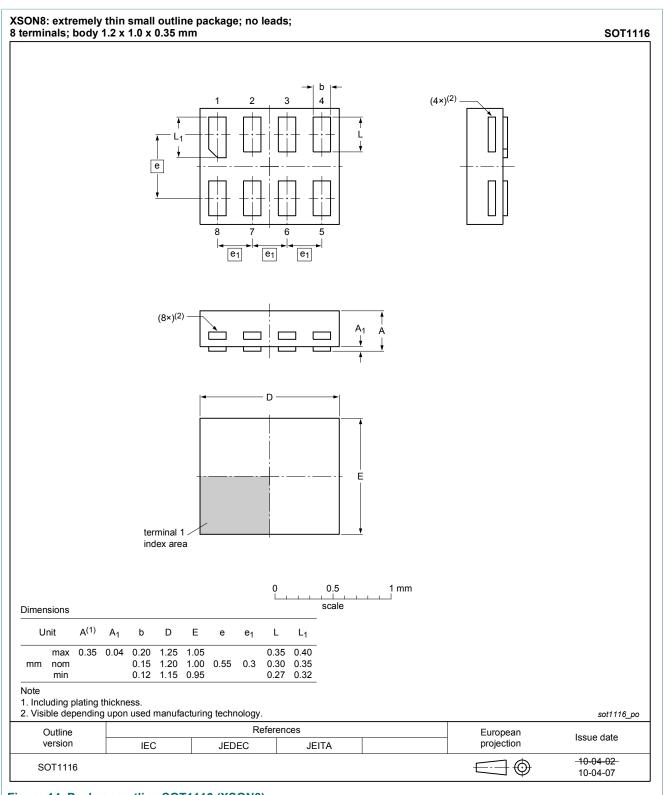
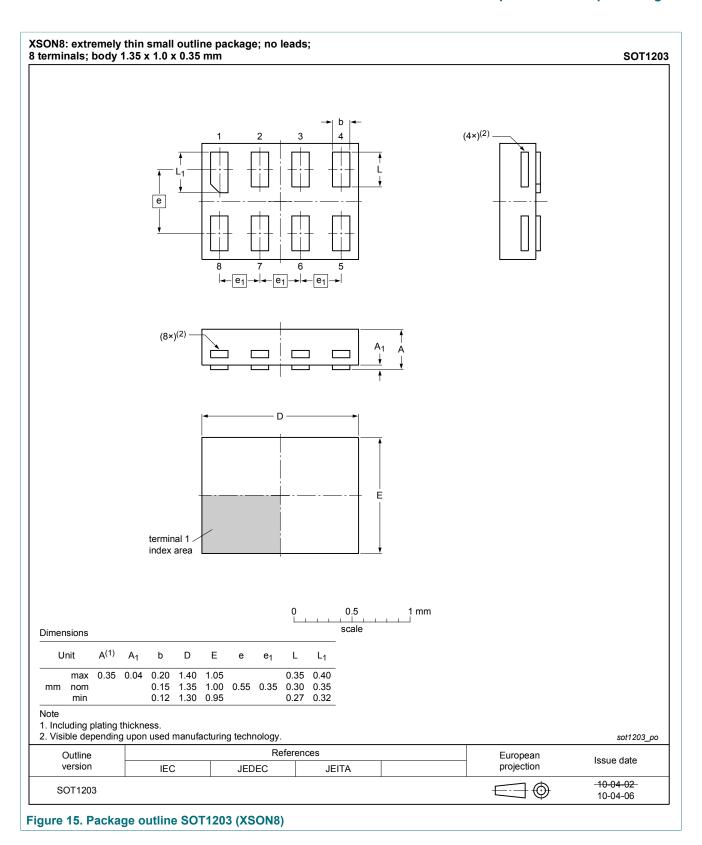
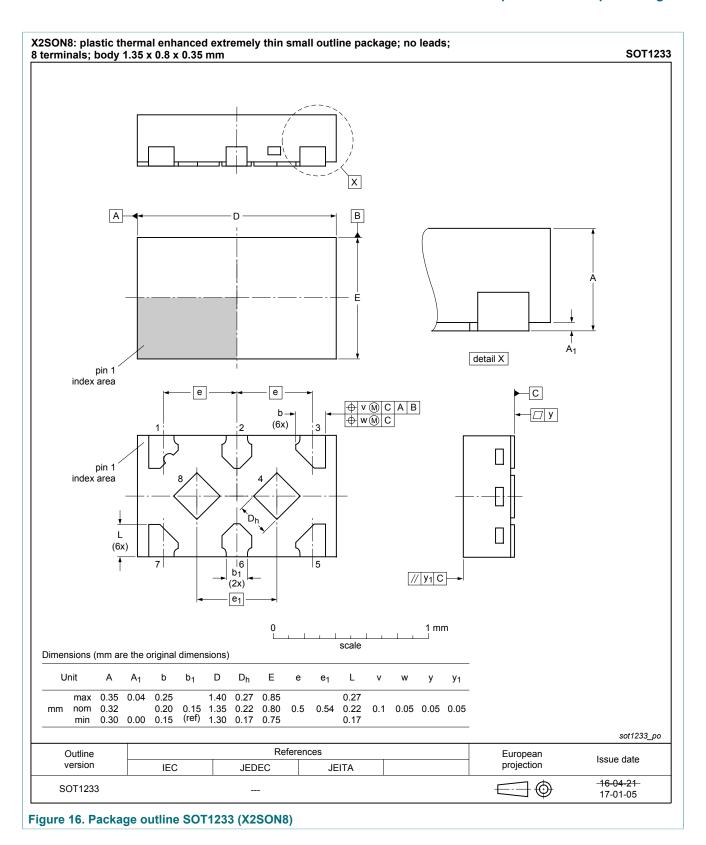


Figure 14. Package outline SOT1116 (XSON8)



74AUP2G08



74AUP2G08

13 Abbreviations

Table 11. 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

Table 12. Revision history				
Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP2G08 v.9	20170703	Product data sheet	-	74AUP2G08 v.8
Modifications:	 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. Figure 7 and Figure 16 (drawings SOT1233/X2SON8) updated Type number 74AUP2G08GD removed. 			
74AUP2G08 v.8	20161028	Product data sheet	-	74AUP2G08 v.7
Modifications:	Added type number 74AUP2G08GX (SOT1233/X2SON8)			
74AUP2G08 v.7	20130118	Product data sheet	-	74AUP2G08 v.6
Modifications:	For type number	r 74AUP2G08GD XSO	N8U has changed to	XSON8.
74AUP2G08 v.6	20120607	Product data sheet	-	74AUP2G08 v.5
74AUP2G08 v.5	20111201	Product data sheet	-	74AUP2G08 v.4
74AUP2G08 v.4	20101109	Product data sheet	-	74AUP2G08 v.3
74AUP2G08 v.3	20080529	Product data sheet	-	74AUP2G08 v.2
74AUP2G08 v.2	20080407	Product data sheet	-	74AUP2G08 v.1
74AUP2G08 v.1	20061006	Product data sheet	-	-

15 Legal information

15.1 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.

- Please consult the most recently issued document before initiating or completing a design.
- The term 'short data sheet' is explained in section "Definitions". [2] [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.nexperia.com.

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Nexperia 74AUP2G08

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