74AUP2G32

Low-power dual 2-input OR gate

Rev. 10 — 27 July 2023

Product data sheet

1. General description

The 74AUP2G32 is a dual 2-input OR 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
- · CMOS low power dissipation
- High noise immunity
- Low static power consumption; I_{CC} = 0.9 μA (maximum)
- · 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)
 - JESD8C (2.7 V to 3.6 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 3A exceeds 5000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



Low-power dual 2-input OR gate

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74AUP2G32DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74AUP2G32GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	<u>SOT833-1</u>
74AUP2G32GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089
74AUP2G32GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	<u>SOT1116</u>
74AUP2G32GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	<u>SOT1203</u>
74AUP2G32GX	-40 °C to +125 °C	X2SON8	plastic thermal enhanced extremely thin small outline package; no leads; 8 terminals; body 1.35 × 0.8 × 0.32 mm	SOT1233-2

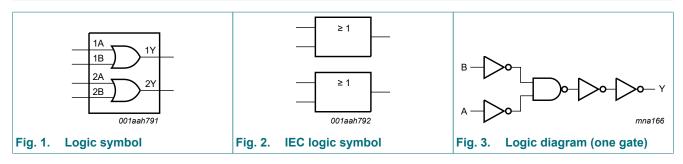
4. Marking

Table 2. Marking codes

Type number	Marking code[1]
74AUP2G32DC	p32
74AUP2G32GT	p32
74AUP2G32GF	pG
74AUP2G32GN	pG
74AUP2G32GS	pG
74AUP2G32GX	pG

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

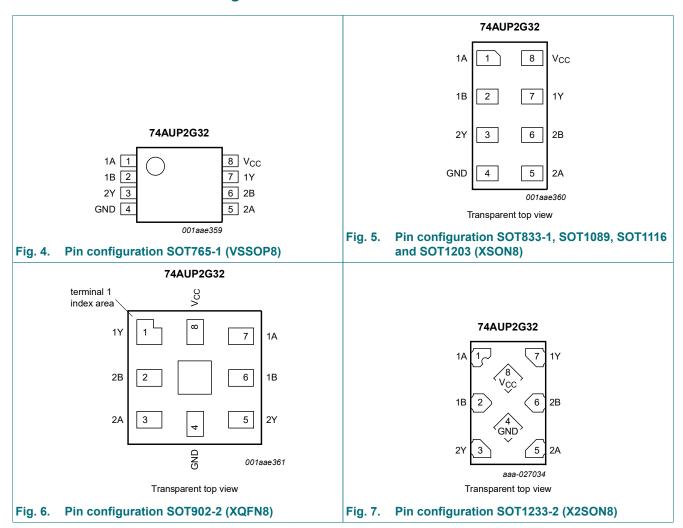
5. Functional diagram



Low-power dual 2-input OR gate

6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description	
	SOT765-1, SOT833-1, SOT1089, SOT1116, SOT1203 and SOT1233-2	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

3 / 19

Low-power dual 2-input OR gate

7. Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$

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

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
l _{ok}	output clamping current	V _O < 0 V		-50	-	mA
Io	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 °C to +125 °C				
		SOT765-1 (VSSOP8) SOT833-1 (XSON8) SOT1089 (XSON8) SOT1116 (XSON8) SOT1203 (XSON8)	[2] [3] [4] [5] [6]	- - - -	250 250 250 250 250	mW mW mW mW
		SOT1233-2 (X2SON8)	[7]	-	300	mW

- [1] The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.
- For SOT833-1 (XSON8) package: Ptot derates linearly with 3.1 mW/K above 68 °C.
- For SOT1089 (XSON8) package: Ptot derates linearly with 4.0 mW/K above 88 °C.
- For SOT1116 (XSON8) package: P_{tot} derates linearly with 4.2 mW/K above 90 °C. For SOT1203 (XSON8) package: P_{tot} derates linearly with 3.6 mW/K above 81 °C. For SOT1233-2 (X2SON8) package: P_{tot} derates linearly with 7.7 mW/K above 118 °C.

Low-power dual 2-input OR gate

9. Recommended operating conditions

Table 6. 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
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 × 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 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	-	-	٧
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
		$I_{O} = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	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	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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
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	μA
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.5	μΑ
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ [1] $V_{CC} = 3.3 \text{ V}$	-	-	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} = -	40 °C to +85 °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 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
		$I_{O} = -1.9 \text{ mA}; V_{CC} = 1.65 \text{ V}$	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
		$I_{O} = -2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.67	-	-	V
		$I_{O} = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.55	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
OL		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 × 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
		$I_O = 2.7 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	_	0.33	V
		I _O = 4.0 mA; V _{CC} = 3.0 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_1 or $V_0 = 0$ V to 3.6 V; $V_{CC} = 0$ 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	μΑ
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_0 = 0 \text{ A};$ [1] $V_{CC} = 3.3 \text{ V}$	-	-	50	μA

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 × 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
		$I_O = -1.1 \text{ mA}; V_{CC} = 1.1 \text{ V}$	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
		$I_O = -3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	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 μ 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 × 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
		$I_O = 3.1 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	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 _L	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
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	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	1.4	μA
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ [1] $V_{CC} = 3.3 \text{ V}$	-	-	75	μA

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

Low-power dual 2-input OR gate

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 9.

Symbol	Parameter	Conditions	T,	_{amb} = 25 °	C.	T _{an}	_{1b} = 0 +85 °C	T _{amb} = -40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
C _L = 5 p	F				•					
t _{pd}	propagation	nA or nB to nY; see Fig. 8 [2]								
	delay	V _{CC} = 0.8 V	-	16.8	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.4	5.1	10.9	2.1	11.9	2.1	13.2	ns
		V _{CC} = 1.4 V to 1.6 V	1.6	3.6	6.6	1.4	7.5	1.4	8.3	ns
		V _{CC} = 1.65 V to 1.95 V	1.4	3.0	5.2	1.2	6.0	1.2	6.6	ns
		V _{CC} = 2.3 V to 2.7 V	1.1	2.4	3.9	1.0	4.6	1.0	5.1	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.1	3.5	0.9	4.1	0.9	4.6	ns
C _L = 10	pF									
t _{pd}	propagation	nA or nB to nY; see Fig. 8 [2]								
	delay	V _{CC} = 0.8 V	-	20.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.3	5.9	12.7	2.1	13.8	2.1	15.2	ns
		V _{CC} = 1.4 V to 1.6 V	1.9	4.2	7.7	1.7	8.7	1.7	9.6	ns
		V _{CC} = 1.65 V to 1.95 V	1.7	3.5	6.0	1.5	6.9	1.5	7.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	2.9	4.6	1.3	5.5	1.3	6.1	ns
		V _{CC} = 3.0 V to 3.6 V	1.3	2.7	4.3	1.2	5.0	1.2	5.5	ns
C _L = 15	pF									
t _{pd}	propagation	nA or nB to nY; see Fig. 8 [2]								
	delay	V _{CC} = 0.8 V	-	23.8	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.3	6.7	14.3	3.0	15.6	3.0	17.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.8	8.6	2.0	9.8	2.0	10.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.0	4.0	6.7	1.8	7.9	1.8	8.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	3.3	5.3	1.6	6.3	1.6	6.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	3.1	4.9	1.5	5.8	1.5	6.4	ns
C _L = 30	pF									
t _{pd}	propagation	nA or nB to nY; see Fig. 8 [2]								
	delay	V _{CC} = 0.8 V	-	34.1	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.5	9.0	19.1	4.0	21.5	4.0	23.7	ns
		V _{CC} = 1.4 V to 1.6 V	3.4	6.3	11.3	2.9	13.3	2.9	14.7	ns
		V _{CC} = 1.65 V to 1.95 V	2.6	5.3	8.9	2.4	10.7	2.4	11.8	ns
		V _{CC} = 2.3 V to 2.7 V	2.3	4.4	7.0	2.2	8.4	2.2	9.3	ns
		V _{CC} = 3.0 V to 3.6 V	2.2	4.2	6.4	2.1	7.7	2.1	8.5	ns

Low-power dual 2-input OR gate

Symbol	Parameter	Conditions	T _{amb} = 25 °C		_{nb} = o +85 °C	T _{an} -40 °C to		Unit			
			Min	Typ[1]	Max	Min	Max	Min	Max		
$C_L = 5 p$	F, 10 pF, 15 p	F and 30 pF									
C _{PD}	power dissipation	f_i = 1 MHz; [3] V_I = GND to V_{CC}									
	capacitance	capacitance	V _{CC} = 0.8 V	-	2.6	-	-	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.7	-	-	-	-	-	pF	
		V _{CC} = 1.4 V to 1.6 V	-	2.7	-	-	-	-	-	pF	
		V _{CC} = 1.65 V to 1.95 V	-	2.9	-	-	-	-	-	pF	
		V _{CC} = 2.3 V to 2.7 V	-	3.3	-	-	-	-	-	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;

fo = output frequency in MHz;

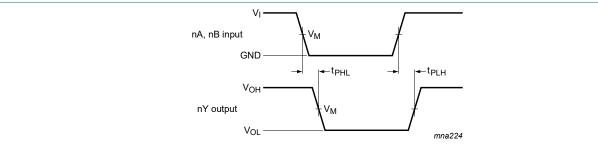
C_L = output load capacitance in pF;

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.

11.1. Waveform 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.

The data input (nA or nB) to output (nY) propagation delays

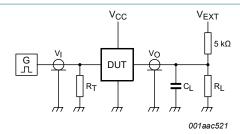
Table 9. Measurement points

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

Product data sheet

9 / 19

Low-power dual 2-input OR gate



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_o of the pulse generator;

 V_{EXT} = External voltage for measuring switching times.

Fig. 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 .

Low-power dual 2-input OR gate

12. Package outline

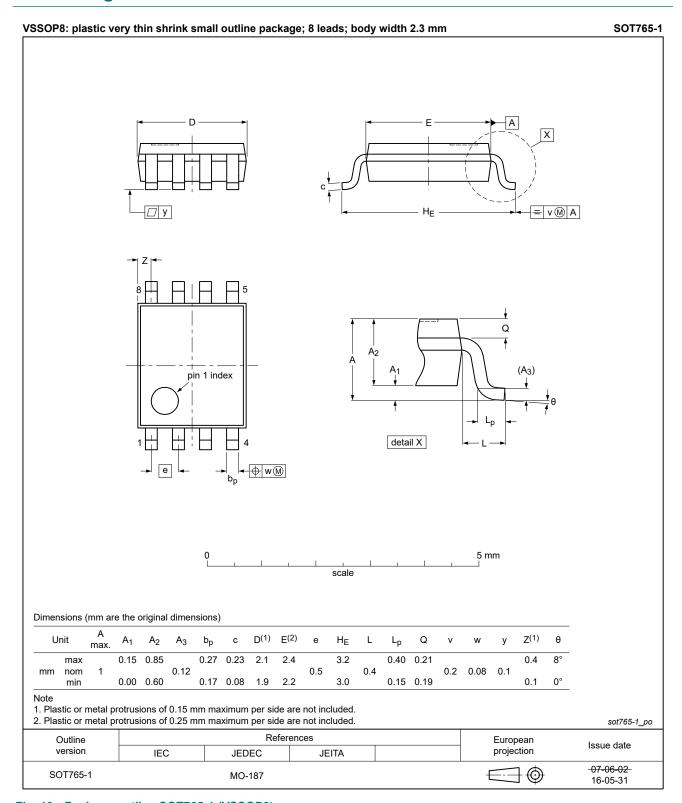


Fig. 10. Package outline SOT765-1 (VSSOP8)

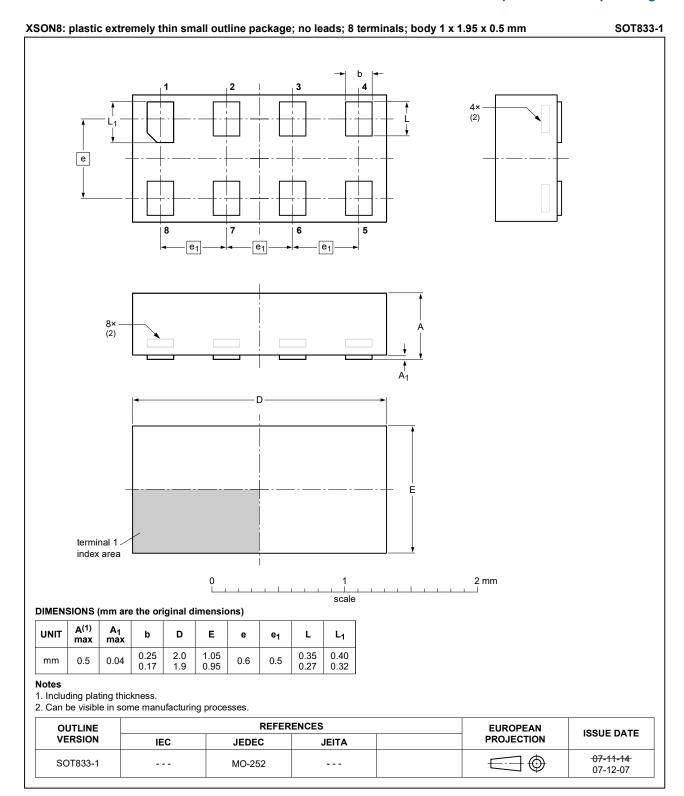


Fig. 11. Package outline SOT833-1 (XSON8)

Low-power dual 2-input OR gate

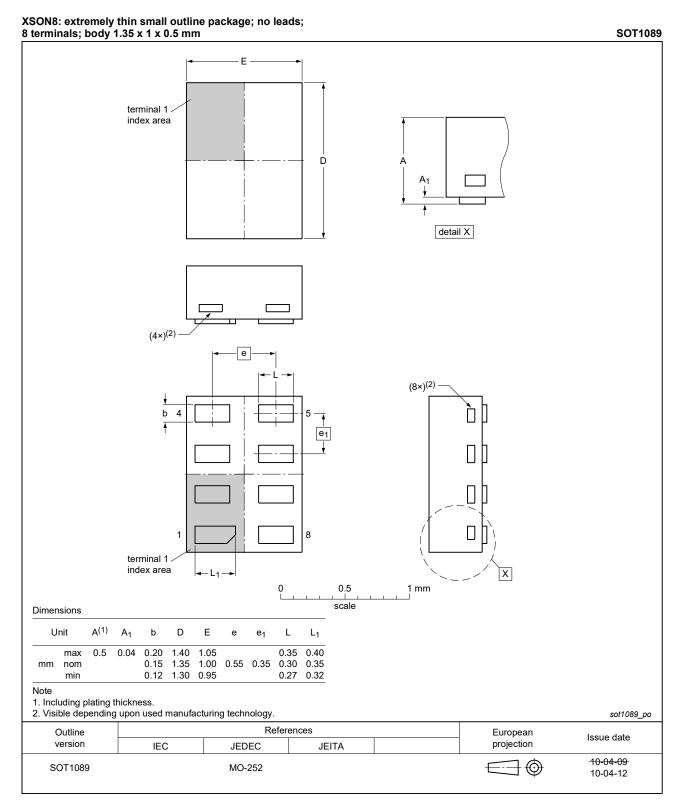


Fig. 12. Package outline SOT1089 (XSON8)

Product data sheet

13 / 19

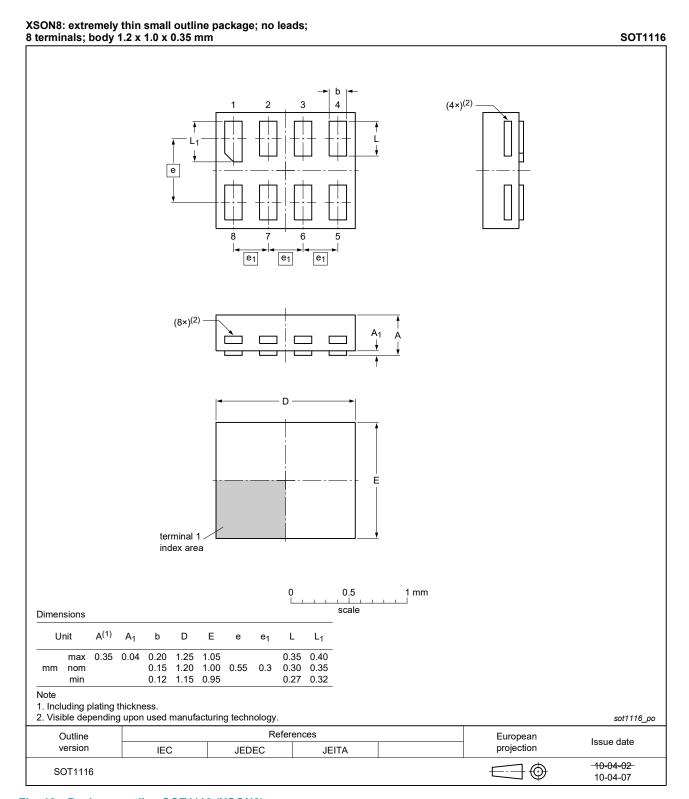


Fig. 13. Package outline SOT1116 (XSON8)

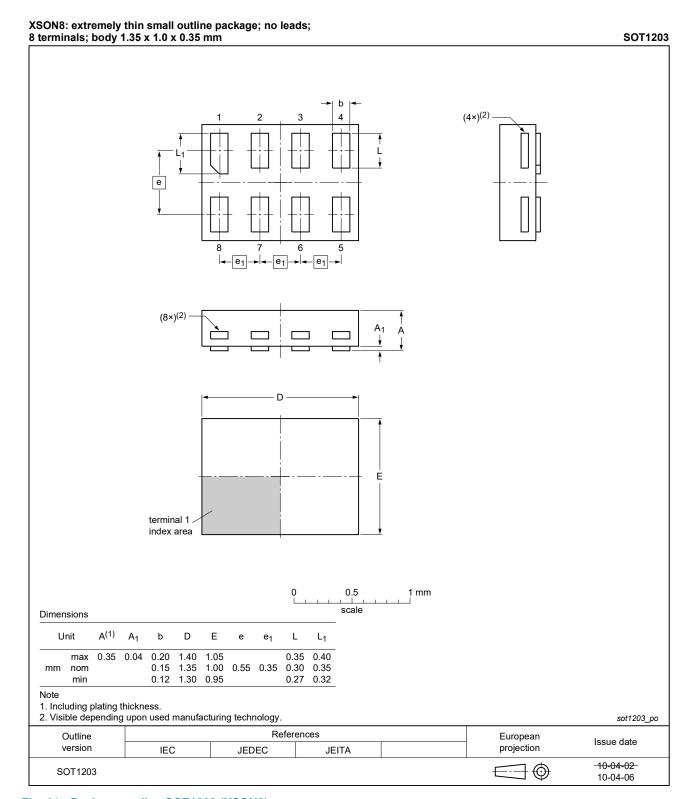


Fig. 14. Package outline SOT1203 (XSON8)

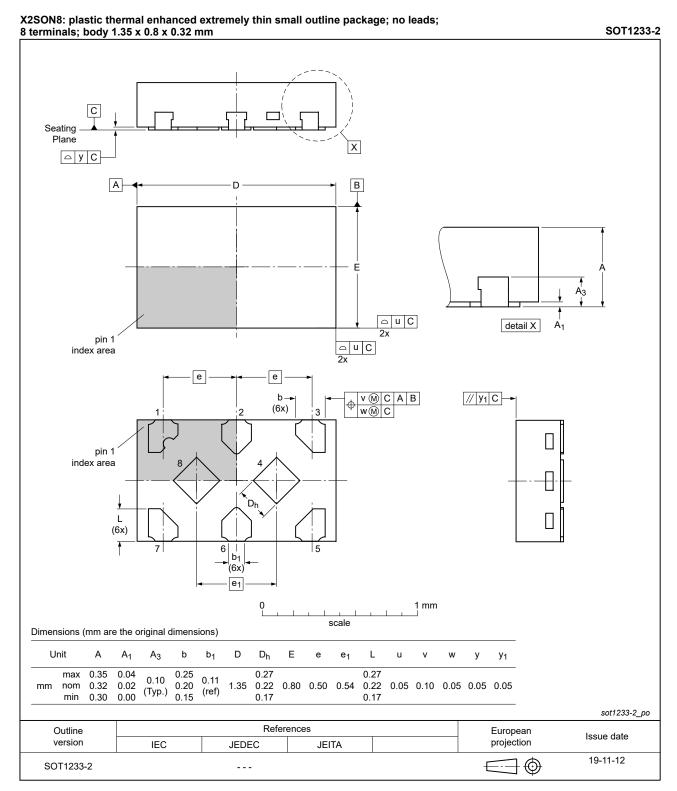


Fig. 15. Package outline SOT1233-2 (X2SON8)

Low-power dual 2-input OR gate

13. Abbreviations

Table 11. Abbreviations

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

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP2G32 v.10	20230727	Product data sheet	-	74AUP2G32 v.9
Modifications:	Section 2: E	SD specification updated	according to the la	atest JEDEC standard.
74AUP2G32 v.9	20220624	Product data sheet	-	74AUP2G32 v.8
Modifications:	• <u>Section 1</u> a	X2SON8) package change nd <u>Section 2</u> updated. rating values for P _{tot} total p	,	
74AUP2G32 v.8	20170703	Product data sheet	-	74AUP2G32 v.7
Modifications:	guidelines o Legal texts Type number	of this data sheet has beer of Nexperia. have been adapted to the er 74AUP2G32GX (SOT12 er 74AUP2G32GD remove	new company nar 233 / X2SON8) ad	me where appropriate.
74AUP2G32 v.7	20130123	Product data sheet	-	74AUP2G32 v.6
Modifications:	For type nu	mber 74AUP2G32GD XSC	N8U has change	d to XSON8.
74AUP2G32 v.6	20120605	Product data sheet	-	74AUP2G32 v.5
74AUP2G32 v.5	20111206	Product data sheet	-	74AUP2G32 v.4
74AUP2G32 v.4	20101021	Product data sheet	-	74AUP2G32 v.3
74AUP2G32 v.3	20090108	Product data sheet	-	74AUP2G32 v.2
74AUP2G32 v.2	20080228	Product data sheet	-	74AUP2G32 v.1
74AUP2G32 v.1	20061006	Product data sheet	-	-

Low-power dual 2-input OR 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".
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Low-power dual 2-input OR gate

Contents

1.	General description	1
2.	Features and benefits	1
3.	Ordering information	2
4.	Marking	2
5.	Functional diagram	2
6.	Pinning information	3
6.1	. Pinning	3
6.2	. Pin description	3
7.	Functional description	4
8.	Limiting values	4
9.	Recommended operating conditions	5
10.	Static characteristics	5
11.	Dynamic characteristics	8
11.	Waveform and test circuit	9
12.	Package outline	11
13.	Abbreviations	17
14.	Revision history	17
15.	Legal information	.18
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