

74AUP1G332GM,115 Datasheet

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DiGi Electronics Part Number	74AUP1G332GM,115-DG
Manufacturer	Nexperia USA Inc.
Manufacturer Product Number	74AUP1G332GM,115
Description	IC GATE OR 1CH 3-INP 6XSON
Detailed Description	OR Gate IC 1 Channel 6-XSON, SOT886 (1.45x1)

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Manufacturer Product Number:	Manufacturer:
74AUP1G332GM,115	Nexperia USA Inc.
Series:	Product Status:
74AUP	Active
Logic Type:	Number of Circuits:
OR Gate	1
Number of Inputs:	Features:
3	
Voltage - Supply:	Current - Quiescent (Max):
0.8V ~ 3.6V	500 nA
Current - Output High, Low:	Input Logic Level - Low:
4mA, 4mA	0.7V ~ 0.9V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.6V ~ 2V	5.5ns @ 3.3V, 30pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
6-XSON, SOT886 (1.45x1)	6-XFDFN
Base Product Number:	
74AUP1G332	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	



Low-power 3-input OR-gate Rev. 8 — 18 July 2023

Product data sheet

1. General description

The 74AUP1G332 is a single 3-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
- Complies with JEDEC standards:
 - JESD8-12 (0.8 V to 1.3 V)
 - JESD8-11 (0.9 V to 1.65 V)
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
- Low static power consumption; I_{CC} = 0.9 µA (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- 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
- 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

3. Ordering information

Table 1. Ordering information

Type number	Package							
	Temperature range	range Name Description Version						
74AUP1G332GW	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	<u>SOT363-2</u>				
74AUP1G332GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	<u>SOT886</u>				
74AUP1G332GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	<u>SOT1115</u>				
74AUP1G332GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	<u>SOT1202</u>				

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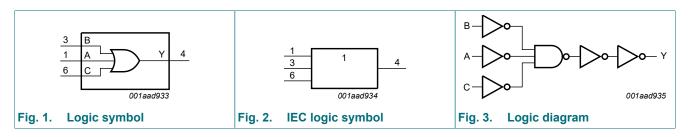
74AUP1G332

4. Marking

Table 2. Marking			
Type number	Marking code [1]		
74AUP1G332GW	aG		
74AUP1G332GM	aG		
74AUP1G332GN	aG		
74AUP1G332GS	aG		

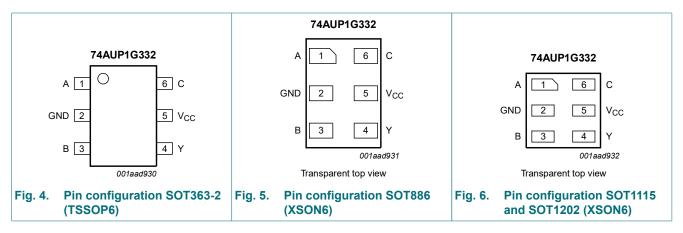
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

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

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

Input			Output
Α	В	C	Y
Н	Х	Х	Н
Х	Н	Х	Н
Х	Х	Н	Н
L	L	L	L

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	Мах	Unit
V _{CC}	supply voltage			-0.5	+4.6	V
I _{IK}	input clamping current	V ₁ < 0 V		-50	-	mA
VI	input voltage		[1]	-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	[1]	-0.5	+4.6	V
Ι _Ο	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 °C to +125 °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 SOT363-2 (TSSOP6) package: P_{tot} derates linearly with 3.7 mW/K above 83 °C.

For SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: Ptot derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

9. Recommended operating conditions

Table 6. 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
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	25 °C		<u> </u>		<u> </u>	
VIH	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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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	-	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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	-	-	0.31	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_1 or $V_0 = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.2	μA
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	-	-	±0.2	μA
I _{CC}	supply current	$\label{eq:VI} \begin{array}{l} V_{I} = GND \text{ or } V_{CC}; \ I_{O} = 0 \ A; \\ V_{CC} = 0.8 \ V \ to \ 3.6 \ V \end{array}$	-	-	0.5	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V};$ One input at V _{CC} - 0.6 V, other inputs at V _{CC} or GND	-	-	40	μA
CI	input capacitance	V_{CC} = 0 V to 3.6 V; V _I = GND or V _{CC}	-	0.8	-	pF
Co	output capacitance	$V_0 = GND; V_{CC} = 0 V$	-	1.7	-	pF

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Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
T _{amb} = -4	40 °C to +85 °C		· ·		I	
VIH	HIGH-level input voltage	V _{CC} = 0.8 V	0.70 × V _{CC}	-	-	V
		V _{CC} = 0.9 V to 1.95 V	$0.65 \times V_{CC}$	-	-	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	-	-	0.30 × 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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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 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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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	-	-	$0.3 \times V_{CC}$	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
l _l	input leakage current	V_1 = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.5	μA
I _{OFF}	power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V}; V_{CC} = 0 \text{ V}$	-	-	±0.5	μA
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	μA
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
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V};$ One input at V _{CC} - 0.6 V, other inputs at V _{CC} or GND	-	-	50	μA

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +125 °C	·				
VIH	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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = -20 µA; 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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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
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	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V}; V_{CC} = 0 \text{ V}$	-	-	±0.75	μA
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	-	-	±0.75	μA
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	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V};$ One input at V _{CC} - 0.6 V, other inputs at V _{CC} or GND	-	-	75	μA

11. Dynamic characteristics

Table 8. Dynamic characteristics

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

Symbol Parameter		Conditions	Т	T _{amb} = 25 °C		T _{amb} = -40 °C to +85 °C		T _{amb} = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Мах	Min	Max	
C _L = 5 p	F									
t _{pd}	propagation	A, B and C to Y; see Fig. 7 [2	2]							
	delay	V _{CC} = 0.8 V	-	17.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.3	5.2	10.2	2.0	10.3	2.0	10.3	ns
		V _{CC} = 1.4 V to 1.6 V	1.7	3.7	6.0	1.9	6.4	1.9	6.6	ns
		V _{CC} = 1.65 V to 1.95 V	1.6	3.0	4.7	1.4	5.2	1.4	5.4	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	2.3	3.3	1.2	3.7	1.2	3.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.2	2.1	2.9	1.1	3.1	1.1	3.3	ns
C _L = 10	pF								1	
t _{pd}	propagation	A, B and C to Y; see Fig. 7 [2	2]							
	delay	V _{CC} = 0.8 V	-	17.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.5	6.1	11.9	2.4	12.0	2.4	12.0	ns
		V _{CC} = 1.4 V to 1.6 V	2.2	4.3	7.1	2.0	7.3	2.0	7.6	ns
		V _{CC} = 1.65 V to 1.95 V	2.1	3.5	5.4	1.9	5.8	1.9	6.1	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	2.9	4.0	1.5	4.5	1.5	4.7	ns
		V _{CC} = 3.0 V to 3.6 V	1.5	2.6	3.7	1.4	3.9	1.4	4.1	ns
C _L = 15	pF								1	
t _{pd}	propagation	A, B and C to Y; see Fig. 7 [2	!]							
	delay	V _{CC} = 0.8 V	-	23.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.9	6.9	13.5	2.7	13.6	2.7	13.6	ns
		V _{CC} = 1.4 V to 1.6 V	2.5	4.9	7.8	2.4	8.5	2.4	8.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.2	4.0	6.2	2.1	6.8	2.1	7.1	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	3.3	4.7	1.6	5.2	1.6	5.4	ns
		V _{CC} = 3.0 V to 3.6 V	1.9	3.1	4.2	1.7	4.5	1.7	4.8	ns
C _L = 30	pF									
t _{pd}	propagation	A, B and C to Y; see Fig. 7 [2	2]							
	delay	V _{CC} = 0.8 V	-	36.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.6	9.2	17.9	3.5	18.4	3.5	18.7	ns
		V _{CC} = 1.4 V to 1.6 V	3.2	6.4	10.4	3.3	11.4	3.3	11.9	ns
		V _{CC} = 1.65 V to 1.95 V	3.0	5.3	8.3	2.9	9.1	2.9	9.6	ns
		V _{CC} = 2.3 V to 2.7 V	2.8	4.4	6.2	1.6	6.7	1.6	7.1	ns
		V _{CC} = 3.0 V to 3.6 V	2.6	4.2	5.5	1.4	6.4	1.4	6.7	ns

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Low-power 3-input OR-gate

Symbol	Parameter	Conditions	T,	T _{amb} = 25 °C		T _{amb} = -40 °C to +85 °C		T _{amb} = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min Max		Min	Max	
C _L = 5 p	F, 10 pF, 15 pF	and 30 pF								
C _{PD}	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{\text{CC}}$ [3]								
	dissipation capacitance	V _{CC} = 0.8 V	-	2.5	-	-	-	-	-	pF
	capacitarice	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 V to 3.6 V	-	4.0	-	-	-	-	-	pF

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

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

 \dot{C}_{PD} is used to determine the dynamic power dissipation (P_D in $\mu W).$ [3]

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

f_i = input frequency in MHz;

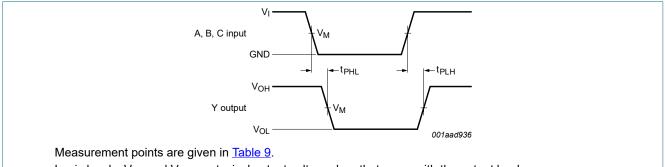
 f_o = output frequency in MHz;

 C_L = 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 the outputs.

11.1. Waveform and test circuit



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

Fig. 7. Input A, B and C to output Y propagation delay times

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

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Low-power 3-input OR-gate

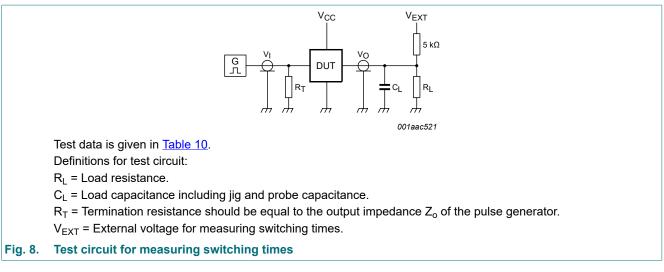


Table 10. Test data

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 $R_L = 5 k\Omega$.

For measuring propagation delays, setup and hold times and pulse width R_L = 1 M Ω .

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12. Package outline

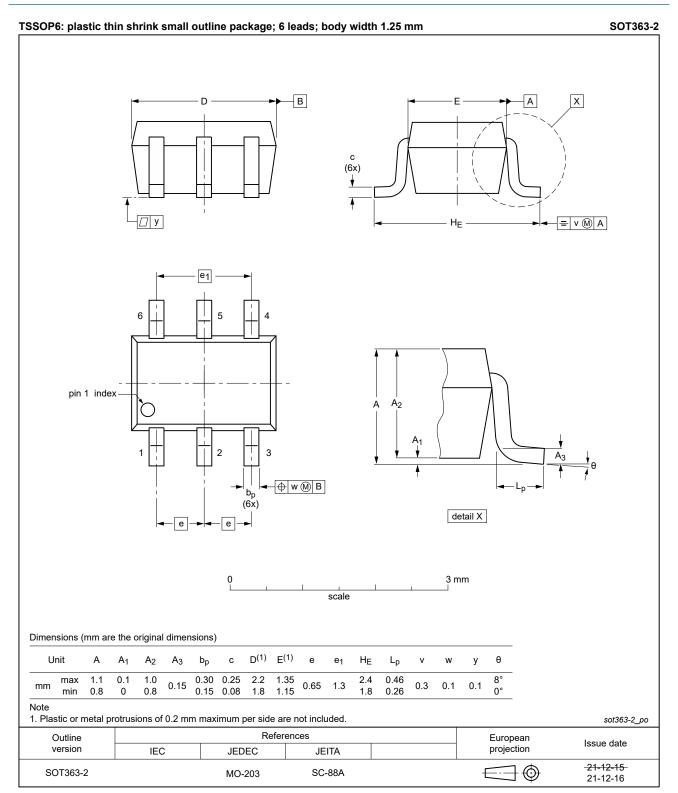


Fig. 9. Package outline SOT363-2 (TSSOP6)

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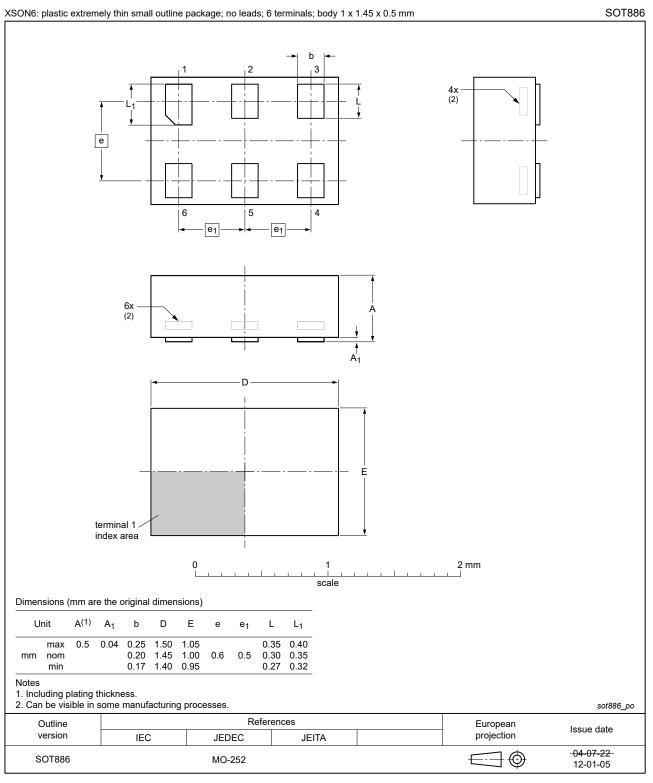
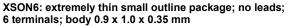
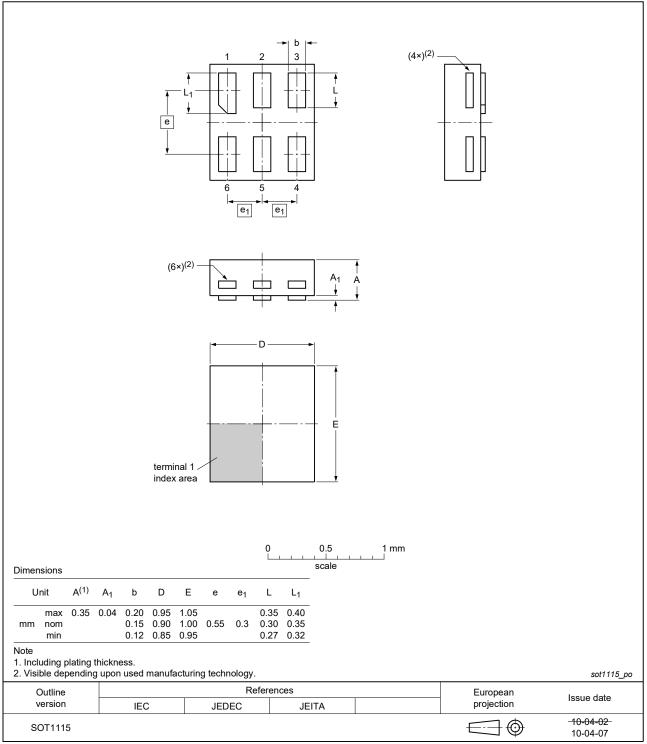


Fig. 10. Package outline SOT886 (XSON6)

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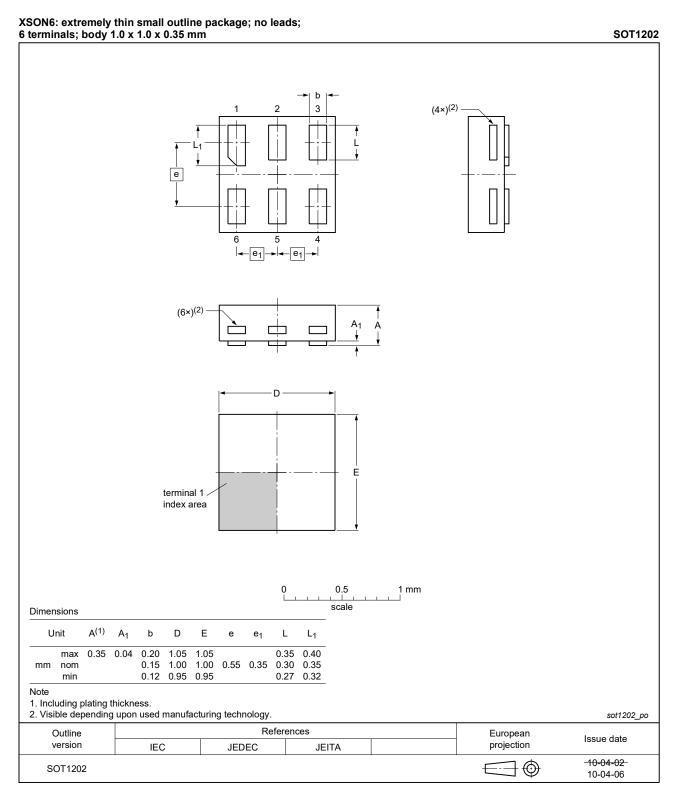
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13. Abbreviations

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

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP1G332 v.8	20230718	Product data sheet	-	74AUP1G332 v.7
Modifications:	<u>Section 2</u> :	ESD specification update	d according to the la	itest JEDEC standard.
74AUP1G332 v.7	20220120	Product data sheet	-	74AUP1G332 v.6
Modifications:		and <u>Section 2</u> updated. SOT363 (SC-88) changed	to SOT363-2 (TSS0	DP6).
74AUP1G332 v.6	20201203	Product data sheet	-	74AUP1G332 v.5
Modifications:	guidelines Legal texts Type num 	It of this data sheet has be of Nexperia. s have been adapted to th ber 74AUP1G332GF (SO rerating values for P _{tot} tota	e new company nar T891 / XSON6) rem	ne where appropriate. oved.
74AUP1G332 v.5	20120704	Product data sheet	-	74AUP1G332 v.4
Modifications:	Package of	outline drawing of SOT886	(Fig. 10) modified.	
74AUP1G332 v.4	20111125	Product data sheet	-	74AUP1G332 v.3
74AUP1G332 v.4 Modifications:		Product data sheet es updated.	-	74AUP1G332 v.3
			-	74AUP1G332 v.3 74AUP1G332 v.2
Modifications:	Legal pag	es updated.	- - -	

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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".
- [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 <u>https://www.nexperia.com</u>.

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