Low-power configurable multiple function gate

Rev. 10 — 24 July 2023

Product data sheet

1. General description

The 74AUP1G58 is a configurable multiple function gate with Schmitt-trigger inputs. The device can be configured as any of the following logic functions AND, OR, NAND, NOR, XOR, inverter and buffer; using the 3-bit input. All inputs can be connected directly to V_{CC} or GND. 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
- 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
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- 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

Type number	Package								
	Temperature range Name		Description	Version					
74AUP1G58GW	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	<u>SOT363-2</u>					
74AUP1G58GM	-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>					
74AUP1G58GN	-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>					
74AUP1G58GS	-40 °C to +125 °C	XSON6							
74AUP1G58GX	-40 °C to +125 °C	X2SON6	plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm	<u>SOT1255-2</u>					

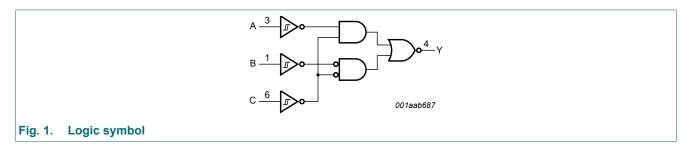
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4. Marking

Type number	Marking code [1]
74AUP1G58GW	aK
74AUP1G58GM	aK
74AUP1G58GN	aK
74AUP1G58GS	aK
74AUP1G58GX	aK

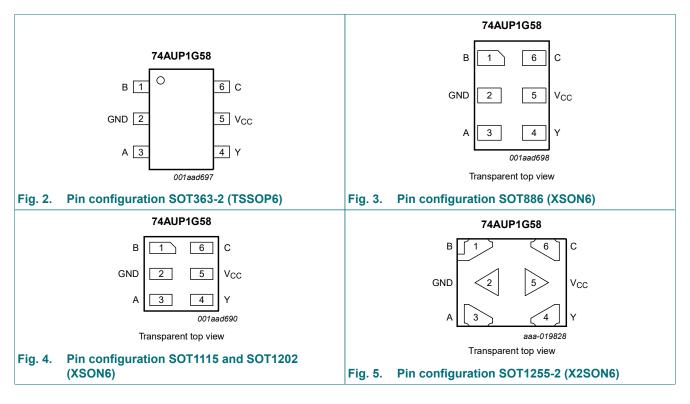
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

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

7. Functional description

Table 4. Function table

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

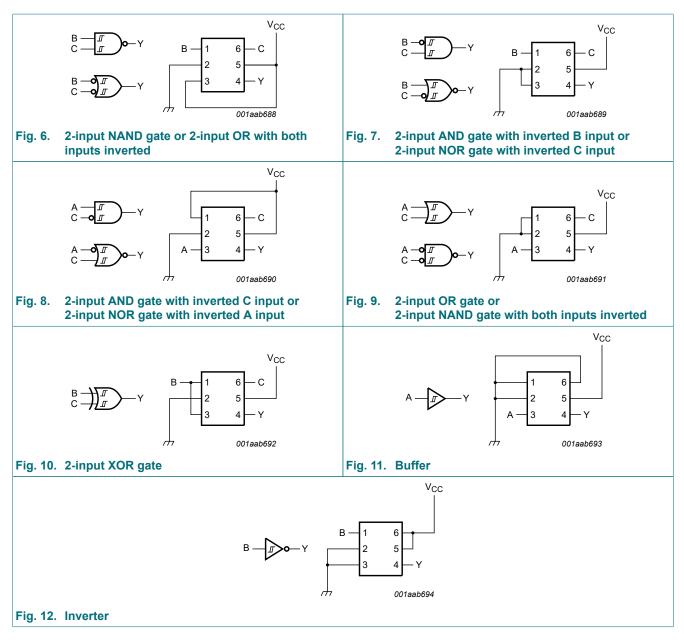
Input			Output
C	В	Α	Y
L	L	L	L
L	L	Н	Н
L	Н	L	L
L	Н	Н	Н
Н	L	L	Н
Н	L	Н	Н
Н	Н	L	L
Н	Н	Н	L

7.1. Logic configurations

Table 5. Function selection table

Figure
see <u>Fig. 6</u>
see Fig. 9
see Fig. 7 and Fig. 8
see Fig. 7 and Fig. 8
see Fig. 9
see Fig. 6
see <u>Fig. 10</u>
see <u>Fig. 11</u>
see Fig. 12

Low-power configurable multiple function gate



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8. Limiting values

Table 6. 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
l _{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
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 °C to +125 °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 SOT363-2 (TSSOP6) package: Ptot 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: P_{tot} derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1255-2 (X2SON6) package: P_{tot} derates linearly with 3.3 mW/K above 75 °C.

9. Recommended operating conditions

Table 7. 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

10. Static characteristics

Table 8. 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 _{OH}	HIGH-level output	$V_{I} = V_{T+}$ or V_{T-}				
	voltage	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	$V_{I} = V_{T+}$ or V_{T-}				
		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	-			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	V_{I} = GND or V_{CC} ; I_{O} = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	0.5	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	40	μA
CI	input capacitance	V_I = GND or V_{CC} ; V_{CC} = 0 V to 3.6 V	-	1.1	-	pF
Co	output capacitance	$V_0 = GND; V_{CC} = 0 V$	-	1.8	-	pF

			Тур	Max	Unit
40 °C to +85 °C					
HIGH-level output	$V_{I} = V_{T+}$ or V_{T-}				
voltage	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
voltage $ I_{0} $ $ I_{0} $ 	I _O = -4.0 mA; V _{CC} = 3.0 V	2.55	-	-	V
	$V_I = V_{T+} \text{ or } V_{T-}$				
	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 mA; V _{CC} = 3.0 V	-	-	0.33	V
	I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.45	V
input leakage current	V_I = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.5	μA
	V_1 or $V_0 = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.5	μA
	V_1 or V_0 = 0 V to 3.6 V; V_{CC} = 0 V to 0.2 V	-	-	±0.6	μA
supply current	V_{I} = GND or V_{CC} ; I_{O} = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	0.9	μA
	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	50	μA
	voltage LOW-level output voltage input leakage current power-off leakage current additional power-off leakage current supply current additional supply	$\label{eq:solution} \mbox{voltage} \end{tabular} \begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:voltage} \begin{tabular}{ c c c c c c c c c c c c c $	$\label{eq:voltage} \begin{tabular}{ l_0 l_0 l_0 l_0 l_0 l_0 l_0 l_0$	

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -4	40 °C to +125 °C					
V _{OH}	HIGH-level output	$V_I = V_{T+}$ or V_{T-}				
	voltage	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 - V - V - V - V - V - V	V
V _{OL}	LOW-level output	$V_{I} = V_{T+}$ or V_{T-}				
	voltage	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 _l	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	0.36 \ 0.50 \ 0.36 \ + 0.50 \ 		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
ΔI _{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	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	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	75	μA

11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 14.

Symbol	Parameter	Conditions	25 °C		25 °C -40 °C to -40 °C t +85 °C +125 °C					Unit
			Min	Typ [1]	Мах	Min	Max	Min	Max	
C _L = 5 pl	F									
Pu 1 1	propagation	A, B and C to Y; see <u>Fig. 13</u> [2]								
	delay	V _{CC} = 0.8 V	-	22.8	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.8	6.6	12.9	2.6	13.1	2.6	13.3	ns
		V _{CC} = 1.4 V to 1.6 V	2.4	4.8	7.6	2.4	8.3	2.4	8.6	ns
		V _{CC} = 1.65 V to 1.95 V	2.1	4.0	6.3	2.0	6.9	2.0	7.3	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	3.2	4.6	1.8	5.1	1.8	5.4	ns
		V _{CC} = 3.0 V to 3.6 V	1.9	2.9	3.9	1.6	4.2	1.6	4.4	ns

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Symbol	Parameter	er Conditions		25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
			Min	Typ [1]	Мах	Min	Max	Min	Max	-
C _L = 10	pF									
t _{pd}	propagation	A, B and C to Y; see <u>Fig. 13</u> [2]								
	delay	V _{CC} = 0.8 V	-	26.4	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.2	7.4	14.5	3.0	14.9	3.0	15.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.7	5.4	8.7	2.7	9.4	2.7	9.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.5	4.5	7.1	2.3	7.9	2.3	8.3	ns
		V _{CC} = 2.3 V to 2.7 V	2.4	3.8	5.3	2.2	5.9	2.2	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	2.3	3.5	4.6	1.9	4.9	1.9	5.1	ns
C _L = 15	pF						1	1	1	
t _{pd}	propagation	A, B and C to Y; see <u>Fig. 13</u> [2]								
	delay	V _{CC} = 0.8 V	-	29.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.6	8.3	16.1	3.3	16.7	3.3	17.0	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	5.9	9.7	3.0	10.5	3.0	11.0	ns
		V _{CC} = 1.65 V to 1.95 V	2.8	5.0	7.9	2.5	8.7	2.5	9.2	ns
		V _{CC} = 2.3 V to 2.7 V	2.7	4.2	5.9	2.5	6.6	2.5	6.9	ns
		V _{CC} = 3.0 V to 3.6 V	2.5	3.9	5.2	2.2	5.5	2.2	5.8	ns
C _L = 30	pF									
t _{pd}	propagation	A, B and C to Y; see <u>Fig. 13</u> [2]								
	delay	V _{CC} = 0.8 V	-	38.0	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.5	10.5	20.8	4.1	21.9	4.1	24.1	ns
		V _{CC} = 1.4 V to 1.6 V	3.8	7.5	12.2	3.8	13.5	3.8	14.1	ns
		V _{CC} = 1.65 V to 1.95 V	3.4	6.3	10.0	3.1	11.2	3.1	11.9	ns
		V _{CC} = 2.3 V to 2.7 V	3.4	5.3	7.5	3.1	8.4	3.1	8.9	ns
		V _{CC} = 3.0 V to 3.6 V	3.3	5.0	6.6	2.9	7.1	2.9	7.4	ns
C _L = 5 p	F, 10 pF, 15 pF	and 30 pF								
C _{PD}	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3][4]								
	dissipation capacitance	V _{CC} = 0.8 V	-	2.7	-	-	-	-	-	pF
	Japaonanioe	V _{CC} = 1.1 V to 1.3 V	-	2.8	-	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	3.0	-	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	3.2	-	-	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.8	-	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.4	-	-	-	-	-	pF

[1] [2] All typical values are measured at nominal V_{CC}.

 t_{pd} is the same as t_{PLH} and t_{PHL} . All specified values are the average typical values over all stated loads. [3]

[4] 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;

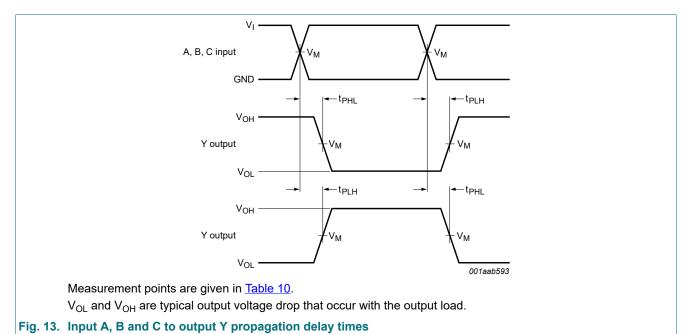
 $f_o = output$ frequency in MHz;

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.

74AUP1G58



11.1. Waveforms and test circuit

Table 10. 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		

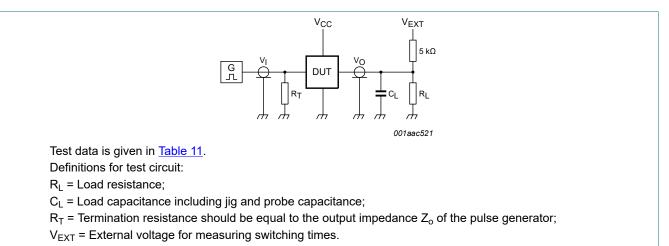


Fig. 14. Test circuit for measuring switching times

Table 11. 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 .

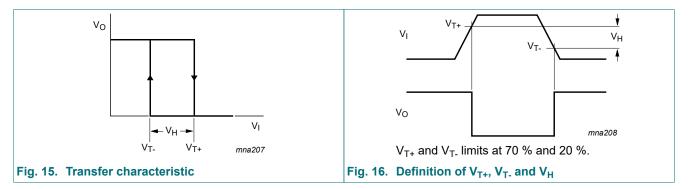
12. Transfer characteristics

Table 12. Transfer characteristics

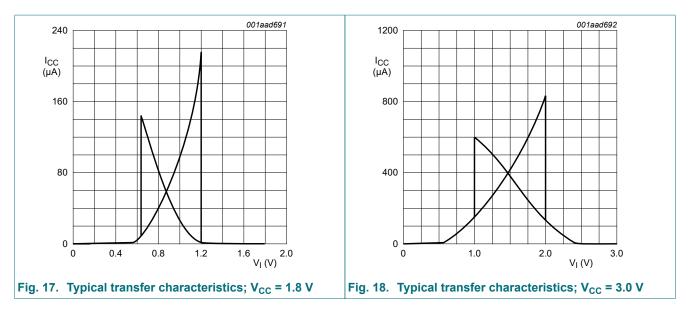
Voltages are referenced to GND (ground = 0 V; for test circuit see Fig. 14.

Symbol	Parameter	Conditions	ions 25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Мах	Min	Мах	Min	Мах	
	positive-going	see Fig. 15 and Fig. 16								
	threshold voltage	V _{CC} = 0.8 V	0.30	-	0.60	0.30	0.60	0.30	0.62	V
	Voltage	V _{CC} = 1.1 V	0.53	-	0.90	0.53	0.90	0.53	0.92	V
		V _{CC} = 1.4 V	0.74	-	1.11	0.74	1.11	0.74	1.13	V
		V _{CC} = 1.65 V	0.91	-	1.29	0.91	1.29	0.91	1.31	V
		V _{CC} = 2.3 V	1.37	-	1.77	1.37	1.77	1.37	1.80	V
		V _{CC} = 3.0 V	1.88	-	2.29	1.88	2.29	1.88	2.32	V
V _{T-}	negative-going	see Fig. 15 and Fig. 16								
	threshold voltage	V _{CC} = 0.8 V	0.10	-	0.60	0.10	0.60	0.10	0.60	V
	voltage	V _{CC} = 1.1 V	0.26	-	0.65	0.26	0.65	0.26	0.65	V
		V _{CC} = 1.4 V	0.39	-	0.75	0.39	0.75	0.39	0.75	V
		V _{CC} = 1.65 V	0.47	-	0.84	0.47	0.84	0.47	0.84	V
		V _{CC} = 2.3 V	0.69	-	1.04	0.69	1.04	0.69	1.04	V
		V _{CC} = 3.0 V	0.88	-	1.24	0.88	1.24	0.88	1.24	V
	hysteresis voltage	(V _{T+} - V _{T-}); see <u>Fig. 15,</u> <u>Fig. 16, Fig. 17</u> and <u>Fig. 18</u>								
		V _{CC} = 0.8 V	0.07	-	0.50	0.07	0.50	0.07	0.50	V
		V _{CC} = 1.1 V	0.08	-	0.46	0.08	0.46	0.08	0.46	V
		V _{CC} = 1.4 V	0.18	-	0.56	0.18	0.56	0.18	0.56	V
		V _{CC} = 1.65 V	0.27	-	0.66	0.27	0.66	0.27	0.66	V
		V _{CC} = 2.3 V	0.53	-	0.92	0.53	0.92	0.53	0.92	V
		V _{CC} = 3.0 V	0.79	-	1.31	0.79	1.31	0.79	1.31	V

12.1. Waveforms transfer characteristics



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13. Package outline

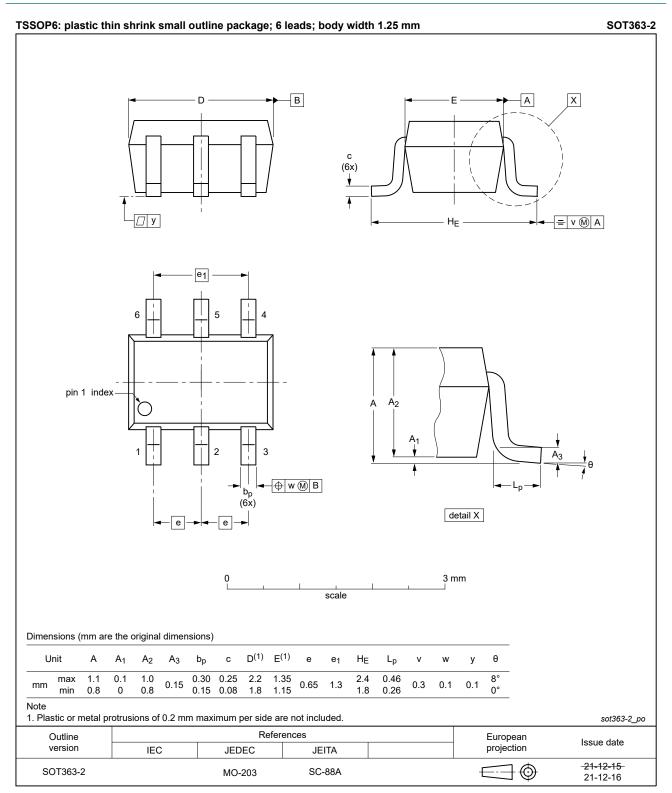


Fig. 19. Package outline SOT363-2 (TSSOP6)

Low-power configurable multiple function gate

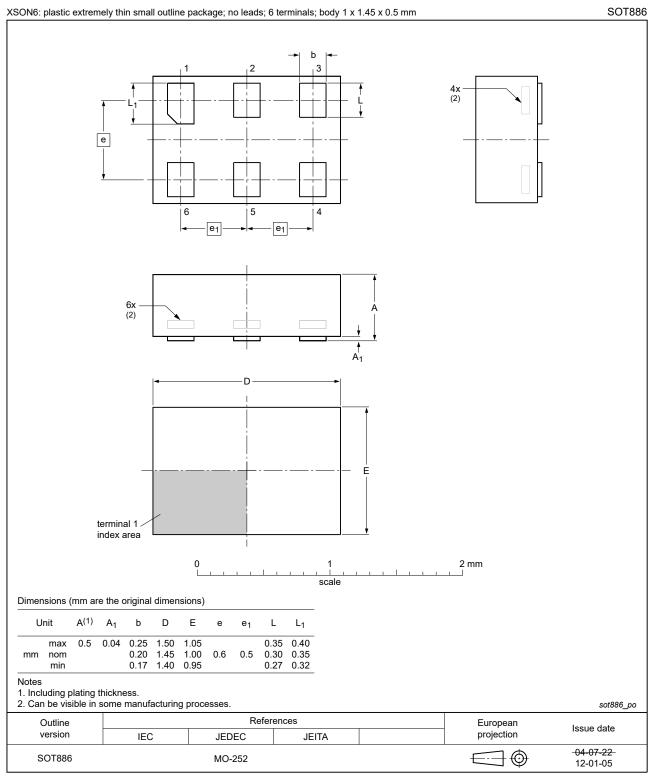
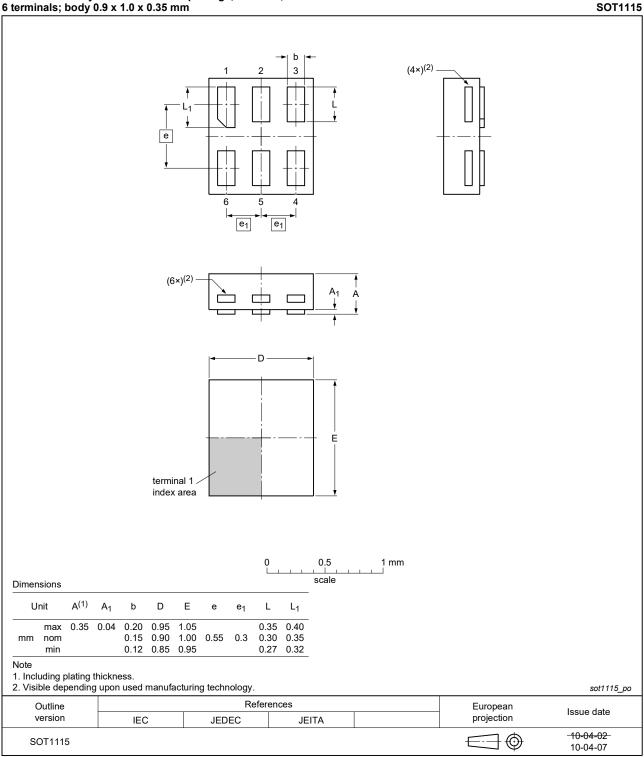


Fig. 20. Package outline SOT886 (XSON6)

XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

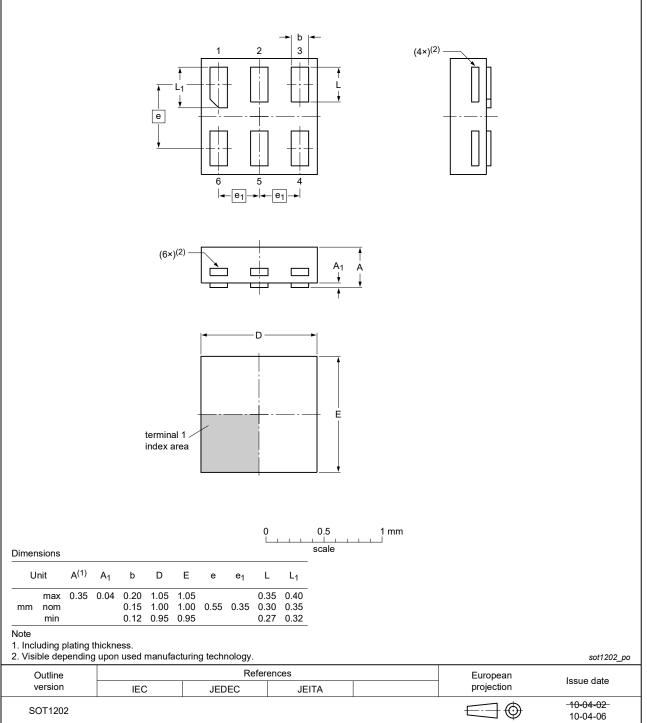




SOT1202

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XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm	

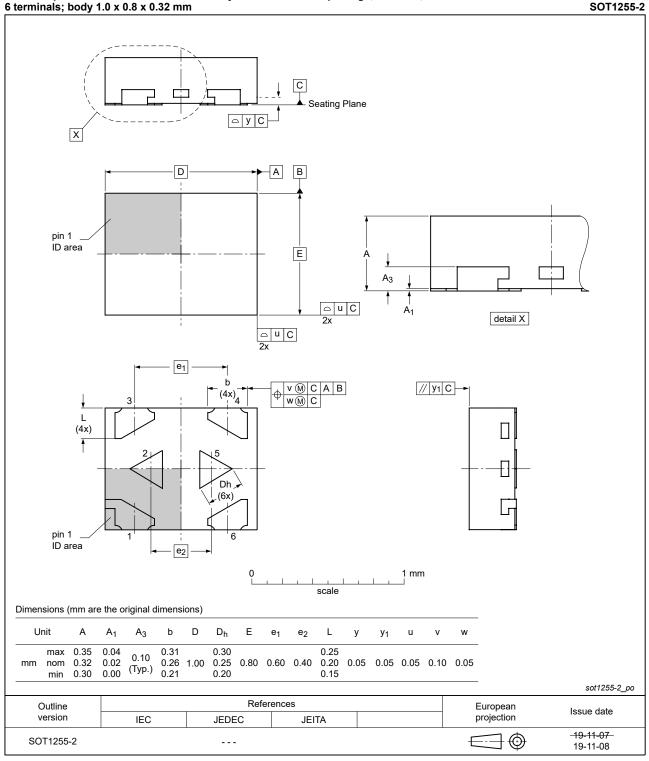




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X2SON6: plastic thermal enhanced extremely thin small outline package; no leads;







14. Abbreviations

Table 13. Abbreviati	Description
Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model

15. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74AUP1G58 v.10	20230724	Product data sheet	-	74AUP1G58 v.9				
Modifications:	• <u>Section 2</u> : E	• <u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.						
74AUP1G58 v.9	20220124	Product data sheet	-	74AUP1G58 v.8				
Modifications:	• SOT363 (S	C-88) package changed to	SOT363-2 (TSSC	DP6) package.				
74AUP1G58 v.8	20210713	Product data sheet	-	74AUP1G58 v.7				
Modifications:	guidelines of Legal texts SOT1255 (2 Type number Section 1 a	Legal texts have been adapted to the new company name where appropriate.						
74AUP1G58 v.7	20150917	Product data sheet	-	74AUP1G58 v.6				
Modifications:	Added type	Added type number 74AUP1G58GX (SOT1255/X2SON6).						
74AUP1G58 v.6	20120815	Product data sheet	-	74AUP1G58 v.5				
Modifications:	Package ou	Package outline drawing of SOT886 (Fig. 20) modified.						
74AUP1G58 v.5	20111129	Product data sheet	-	74AUP1G58 v.4				
74AUP1G58 v.4	20101011	Product data sheet	-	74AUP1G58 v.3				
74AUP1G58 v.3	20090622	Product data sheet	-	74AUP1G58 v.2				
74AUP1G58 v.2	20090326	Product data sheet	-	74AUP1G58 v.1				
74AUP1G58 v.1	20070131	Product data sheet	-	-				

16. 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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