74AUP1T58

Low-power configurable gate with voltage-level translator

Rev. 6 — 2 June 2021 Product data sheet

1. General description

The 74AUP1T58 is a configurable multiple function gate with level translating, 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. Low threshold Schmitt trigger inputs allow these devices to be driven by 1.8 V logic levels in 3.3 V applications.

This device ensures very low static and dynamic power consumption across the entire V_{CC} range from 2.3 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 2.3 V to 3.6 V
- · High noise immunity
- Low static power consumption; I_{CC} = 1.5 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
- ESD protection:
 - HBM JESD22-A114F Class 3A exceeds 5000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E 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	Name	Description	Version					
74AUP1T58GW	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363					
74AUP1T58GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886					
74AUP1T58GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115					
74AUP1T58GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202					



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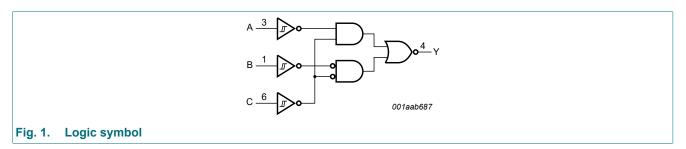
4. Marking

Table 2. Marking

Type number	Marking code [1]
74AUP1T58GW	a8
74AUP1T58GM	a8
74AUP1T58GN	a8
74AUP1T58GS	a8

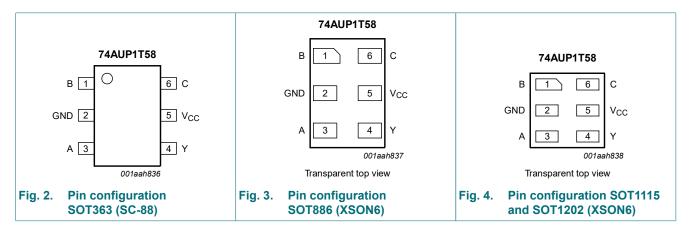
^[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



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6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
В	1	data input
GND	2	ground (0 V)
A	3	data input
Υ	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
С	В	A	Υ
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

Logic function	Figure
2-input NAND	see Fig. 5
2-input NAND with both inputs inverted	see Fig. 8
2-input AND with inverted input	see Fig. 6 and Fig. 7
2-input NOR with inverted input	see Fig. 6 and Fig. 7
2-input OR	see Fig. 8
2-input OR with both inputs inverted	see Fig. 5
2-input XOR	see Fig. 9
Buffer	see Fig. 10
Inverter	see Fig. 11

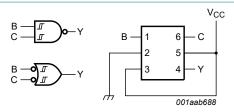


Fig. 5. 2-input NAND gate or 2-input OR gate with both inputs inverted

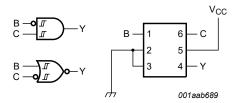


Fig. 6. 2-input AND gate with input B inverted or 2-input NOR gate with inverted C input

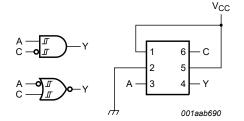


Fig. 7. 2-input AND gate with input C inverted or 2-input NOR gate with inverted A input

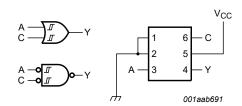


Fig. 8. 2-input OR gate or 2-input NAND gate with both inputs inverted

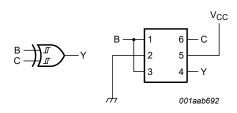


Fig. 9. 2-input XOR gate

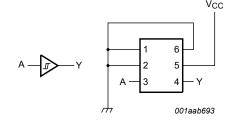


Fig. 10. Buffer

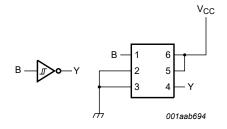


Fig. 11. Inverter

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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	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	[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
Io	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	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [2]	-	250	mW

^[1] The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed.

9. Recommended operating conditions

Table 7. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		2.3	3.6	V
VI	input voltage		0	3.6	V
Vo	output voltage	Active mode	0	V _{CC}	٧
		Power-down mode; V _{CC} = 0 V	0	3.6	V
T _{amb}	ambient temperature		-40	+125	°C

^[2] For SOT363 (SC-88) package: Ptot derates linearly with 3.7 mW/K above 83 °C.

For SOT886 (XSON6) package: Ptot 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.

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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	25 °C					
V _{T+}	positive-going threshold	V _{CC} = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.75	-	1.16	V
V _{T-}	negative-going threshold	V _{CC} = 2.3 V to 2.7 V	0.35	-	0.60	V
	voltage $V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$ hysteresis voltage $(V_H = V_{T+} - V_{T-})$		0.50	-	0.85	V
V _H	hysteresis voltage	$(V_H = V_{T+} - V_{T-})$				
		V _{CC} = 2.3 V to 2.7 V	0.23	-	0.60	V
V _T -		V _{CC} = 3.0 V to 3.6 V	0.25	-	0.56	V
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I_{O} = -20 μ A; V_{CC} = 2.3 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I_{O} = -2.3 mA; V_{CC} = 2.3 V	2.05	-	1.10 1.16 0.60 0.85 0.60 0.56 0.10 0.31 0.44 0.31 0.44 ±0.1 ±0.1 ±0.2 1.2	V
V _{OL}		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
/ _{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I_{O} = 20 μ A; V_{CC} = 2.3 V to 3.6 V	-	-	0.10	V
V _T -		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	-	-	- 1.16 - 0.60 - 0.85 - 0.60 - 0.56 0.10 - 0.31 - 0.44 - 0.31 - 0.44 - ±0.1 - ±0.1 - ±0.2 - 1.2	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.44	V
lį	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	-	-	±0.1	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_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 2.3 V to 3.6 V	-	-	1.2	μΑ
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V_I = GND or V_{CC}	-	8.0	-	pF
Co	output capacitance	V _O = GND; V _{CC} = 0 V	-	1.7	-	pF

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +85 °C					
V _{T+}	positive-going threshold	V _{CC} = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.75	-	1.19	V
V _T -	negative-going threshold	0.35	-	0.60	V	
	voltage	V _{CC} = 3.0 V to 3.6 V	0.50	-	0.85	V
V _H	hysteresis voltage	$(V_{H} = V_{T+} - V_{T-})$				
Voh H		V _{CC} = 2.3 V to 2.7 V	0.10	-	0.60	V
		V _{CC} = 3.0 V to 3.6 V	0.15	-	0.56	V
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I_{O} = -20 μ A; V_{CC} = 2.3 V to 3.6 V	V _{CC} - 0.1	-	-	V
V _T -		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 _{T+}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_O = 20 \mu A; V_{CC} = 2.3 V \text{ to } 3.6 V$		-	0.1	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_I = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	0.75 - 1.1 0.35 - 0.6 0.50 - 0.8 0.10 - 0.6 0.15 - 0.5 V _{CC} - 0.1 1.97 1.85 2.67 2.55 - 0.3 0.4 0.3 0.4 ±0 ±0 1.5		±0.5	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.5	μA
Δl _{OFF}	additional power-off leakage current	V ₁ or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V	-	-	±0.5	μΑ
I _{CC}	supply current	V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 2.3 V to 3.6 V	-	-	1.5	μΑ
ΔI _{CC}	additional supply current	V _{CC} = 2.3 V to 2.7 V; I _O = 0 A	[1] -	-	4	μA
off ∆I _{OFF}		V _{CC} = 3.0 V to 3.6 V; I _O = 0 A	[2] -	-	12	μA

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +125 °C					
V _{T+}	positive-going threshold	V _{CC} = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.75	-	1.19	V
V _{T-}	V_{T-} negative-going threshold $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$			-	0.64	V
	voltage	V _{CC} = 3.0 V to 3.6 V	0.46	-	0.85	V
V _H	hysteresis voltage	$(V_H = V_{T+} - V_{T-})$				
V _{T-} r v v v v v v v v v v v v v v v v v v		V _{CC} = 2.3 V to 2.7 V	0.10	-	0.60	V
		V _{CC} = 3.0 V to 3.6 V	0.15	-	0.56	V
Voltage V _T - negative-going the voltage V _H hysteresis voltage V _{OH} HIGH-level output V _{OL} LOW-level output I _I input leakage cut I _{OFF} power-off leakage ΔI _{OFF} additional power-	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I_{O} = -20 μ A; V_{CC} = 2.3 V to 3.6 V	V _{CC} - 0.11	-	-	V
V _{T+}		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	$V_I = V_{T+}$ or V_{T-}				
T _{amb} = -40 V _{T+} p v v V _{T-} n v v V _H h V _{OH} F I _I ir I _{OFF} p ΔI _{OFF} a I _{CC} s		$I_O = 20 \mu A; V_{CC} = 2.3 V \text{ to } 3.6 V$		-	0.11	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	-	-	1.10 1.19 0.64 0.85 0.60 0.56 0.11 0.36 0.50 0.36 0.50 ±0.75 ±0.75 3.5	V
l _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_{I} or $V_{O} = 0 \text{ V}$ to 3.6 V; $V_{CC} = 0 \text{ V}$	-	-	±0.75	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	-	-	±0.75	μΑ
I _{CC}	supply current	V_{I} = GND or V_{CC} ; I_{O} = 0 A; V_{CC} = 2.3 V to 3.6 V	-	-	3.5	μA
ΔI _{CC}	additional supply current	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V; } I_O = 0 \text{ A}$	1] -	_	7	μΑ
Voh Vol loff Δloff		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V; } I_{O} = 0 \text{ A}$	2] -	-	22	μA

One input at 0.3 V or 1.1 V, other input at V_{CC} or GND. One input at 0.45 V or 1.2 V, other input at V_{CC} or GND.

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11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 13.

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	Min	Max	
V _{CC} = 2.	3 V to 2.7 V; V	' _I = 1.65 V to 1.95 V			ı					
t _{pd}		A, B, C to Y; see Fig. 12 [2	[]							
	delay	C _L = 5 pF	2.1	3.6	5.6	0.5	6.8	0.5	7.5	ns
		C _L = 10 pF	2.6	4.1	6.2	1.0	7.9	1.0	8.7	ns
		C _L = 15 pF	3.0	4.6	6.8	1.0	8.7	1.0	9.6	ns
		C _L = 30 pF	4.0	5.8	8.1	1.5	10.8	1.5	11.9	ns
V _{CC} = 2.	3 V to 2.7 V; V	_I = 2.3 V to 2.7 V		<u> </u>		'	1		-	
t _{pd}		A, B, C to Y; see <u>Fig. 12</u> [2	.]							
	delay	C _L = 5 pF	1.7	3.4	5.5	0.5	6.0	0.5	6.6	ns
		C _L = 10 pF	2.2	4.0	6.2	1.0	7.1	1.0	7.9	ns
		C _L = 15 pF	2.6	4.5	6.8	1.0	7.9	1.0	8.7	ns
		C _L = 30 pF	3.5	5.6	8.1	1.5	10.0	1.5	11.0	ns
V _{CC} = 2.	3 V to 2.7 V; V	1 = 3.0 V to 3.6 V			•					
t _{pd}		A, B, C to Y; see <u>Fig. 12</u> [2	.]							
	delay	C _L = 5 pF	1.4	3.2	5.1	0.5	5.5	0.5	6.1	ns
		C _L = 10 pF	1.9	3.7	5.8	1.0	6.5	1.0	7.2	ns
		C _L = 15 pF	2.2	4.2	6.3	1.0	7.4	1.0	8.2	ns
		C _L = 30 pF	3.2	5.4	7.7	1.5	9.5	1.5	10.5	ns
V _{CC} = 3.	0 V to 3.6 V; V	I = 1.65 V to 1.95 V								
t _{pd}		A, B, C to Y; see <u>Fig. 12</u> [2	[]							
	delay	C _L = 5 pF	2.0	2.9	4.0	0.5	8.0	0.5	8.8	ns
		C _L = 10 pF	2.4	3.5	4.7	1.0	8.5	1.0	9.4	ns
		C _L = 15 pF	2.8	3.9	5.3	1.0	9.1	1.0	10.1	ns
		C _L = 30 pF	3.6	5.1	6.7	1.5	9.8	1.5	10.8	ns
$V_{CC} = 3$.	0 V to 3.6 V; V	_I = 2.3 V to 2.7 V								
t _{pd}	· · · ·	A, B, C to Y; see <u>Fig. 12</u> [2]							
	delay	C _L = 5 pF	1.6	2.8	4.4	0.5	5.3	0.5	5.9	ns
		C _L = 10 pF	2.1	3.4	5.1	1.0	6.1	1.0	6.8	ns
		C _L = 15 pF	2.4	3.9	5.6	1.0	6.8	1.0	7.5	ns
		C _L = 30 pF	3.4	5.0	7.0	1.5	8.5	1.5	9.4	ns
V _{CC} = 3.	0 V to 3.6 V; V	1 = 3.0 V to 3.6 V								
t _{pd}	propagation	A, B, C to Y; see <u>Fig. 12</u> [2								
	delay	C _L = 5 pF	1.3	2.8	4.4	0.5	4.7	0.5	5.2	ns
		C _L = 10 pF	1.7	3.3	5.1	1.0	5.7	1.0	6.3	ns
		C _L = 15 pF	2.1	3.8	5.7	1.0	6.2	1.0	6.9	ns
		C _L = 30 pF	3.1	4.9	7.0	1.5	7.8	1.5	8.6	ns

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Symbol	Parameter	Conditions	25 °C		25 °C -40 °C to +85 °C		-40 °C to	+125 °C	Unit	
			Min	Typ [1]	Max	Min	Max	Min	Max	
T _{amb} = 25 °C										
C _{PD}	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3]								
	dissipation capacitance	V _{CC} = 2.3 V to 2.7 V	-	3.6	-	-	-	-	-	pF
	capacitarioc	V _{CC} = 3.0 V to 3.6 V	-	4.3	-	-	-	-	-	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 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;

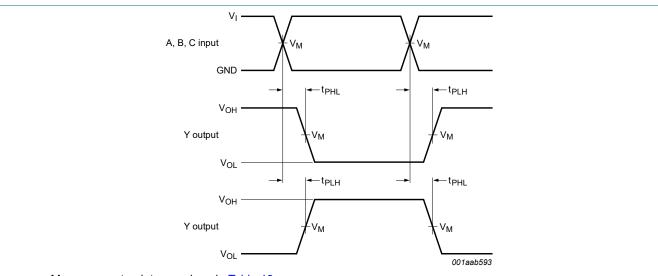
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_0)$ = sum of the outputs.

11.1. Waveforms and test circuit



Measurement points are given in <u>Table 10</u>.

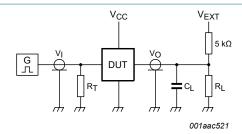
 $\ensuremath{V_{OL}}$ and $\ensuremath{V_{OH}}$ are typical output voltage levels that occur with the output load.

Fig. 12. Input A, B and C to output Y propagation delay times

Table 10. Measurement points

Supply voltage	Output	Input		
V _{CC}	V _M	V _M	VI	$t_r = t_f$
2.3 V to 3.6 V	0.5 × V _{CC}	0.5 × V _I	1.65 V to 3.6 V	≤ 3.0 ns

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Test data is given in Table 11.

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. 13. 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}
2.3 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 configurable gate with voltage-level translator

12. Package outline

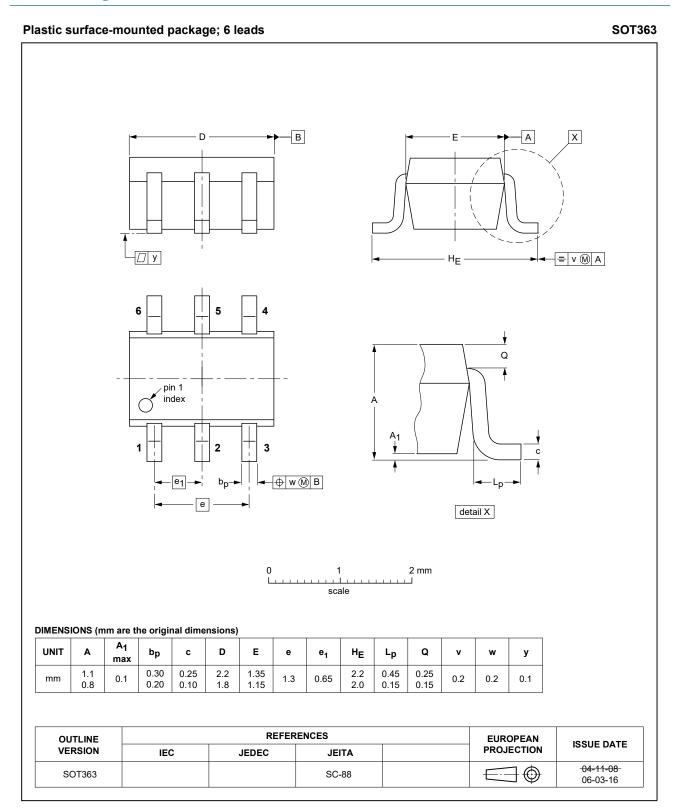


Fig. 14. Package outline SOT363 (SC-88)

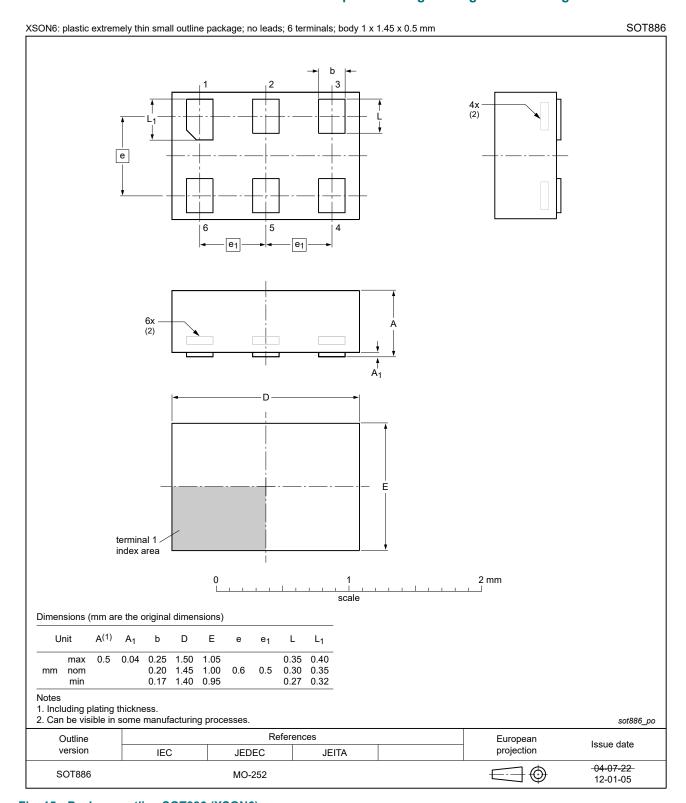


Fig. 15. Package outline SOT886 (XSON6)

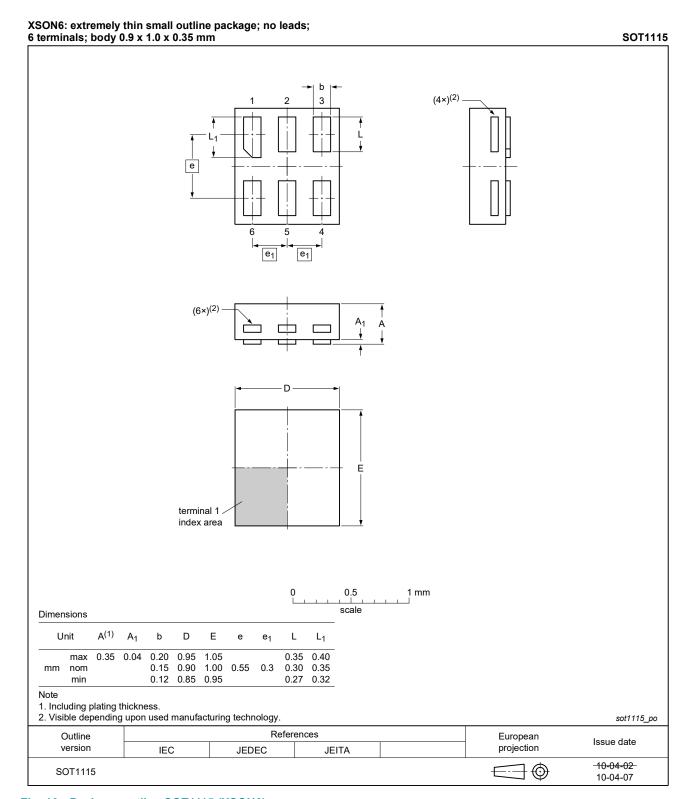


Fig. 16. Package outline SOT1115 (XSON6)

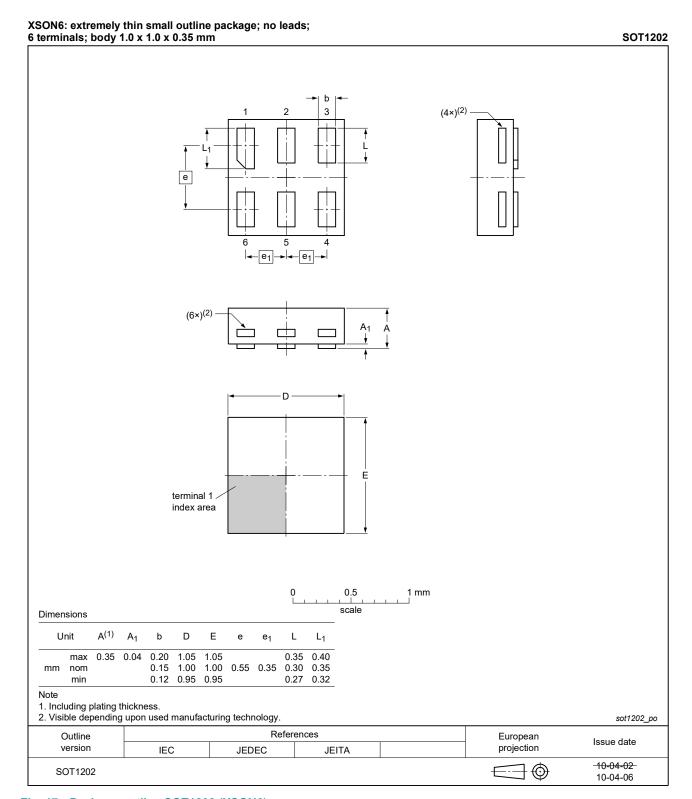


Fig. 17. Package outline SOT1202 (XSON6)

Low-power configurable gate with voltage-level translator

13. Abbreviations

Table 12. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model

14. Revision history

Table 13. Revision history

	Data sheet status	Change notice	Supersedes
0602			
0002	Product data sheet	-	74AUP1T58 v.5
 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. Type number 74AUP1T58GF (SOT891 / XSON6) removed. Section 1 and Section 2 updated. Section 8: Derating values for P_{tot} total power dissipation updated. 			
0815 F	Product data sheet	-	74AUP1T58 v.4
Package outline drawing of SOT886 (<u>Fig. 15</u>) modified.			
1128 F	Product data sheet	-	74AUP1T58 v.3
1018 F	Product data sheet	-	74AUP1T58 v.2
0929 F	Product data sheet	-	74AUP1T58 v.1
0306 F	Product data sheet	-	-
	uidelines of egal texts have number ection 1 and ection 8: De 20815 Fackage outlines Fackage Fackage	egal texts have been adapted to the name of the name o	ridelines of Nexperia. regal texts have been adapted to the new company name rependence of Nexperia. regal texts have been adapted to the new company name rependence of Next 1500 per number 74AUP1T58GF (SOT891 / XSON6) removed to the new company name rependence of Next 1500 per number 74AUP1T58GF (SOT891 / XSON6) removed to the new company name rependence of Next 1500 per number 1500 per numbe

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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".
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Low-power configurable gate with voltage-level translator

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