Low-power configurable multiple function gate Rev. 8 — 23 February 2018

Product data sheet

General description 1

The 74AUP1G57 provides configurable multiple functions. The output state is determined by eight patterns of 3-bit input. The user can choose the logic functions AND, OR, NAND, NOR, XNOR, inverter, and buffer. All inputs can be connected to V_{CC} or GND.

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

The 74AUP1G57 has Schmitt trigger inputs making it capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The inputs switch at different points for positive and negative-going signals. The difference between the positive voltage V_{T+} and the negative voltage V_{T-} is defined as the input hysteresis voltage V_H.

Features and benefits 2

- Wide supply voltage range from 0.8 V to 3.6 V
- High noise immunity
- ESD protection:
 - HBM JESD22-A114F exceeds 5000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Low static power consumption; I_{CC} = 0.9 μA (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- IOFF circuitry provides partial power-down mode operation
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

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3 Ordering information

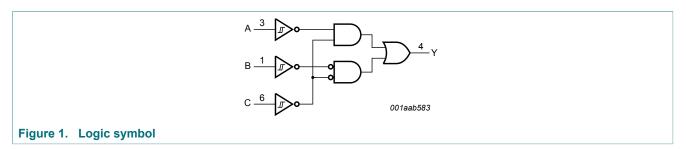
Table 1. Ordering	information							
Type number	Package							
	Temperature range	Name	Description	Version				
74AUP1G57GW	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363				
74AUP1G57GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm	SOT886				
74AUP1G57GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm	SOT891				
74AUP1G57GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm	SOT1115				
74AUP1G57GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm	SOT1202				
74AUP1G57GX	-40 °C to +125 °C	X2SON6	plastic thermal extremely thin small outline package; no leads; 6 terminals; body 1 x 0.8 x 0.35 mm	SOT1255				

4 Marking

Table 2. Marking	
Type number	Marking code ^[1]
74AUP1G57GW	aC
74AUP1G57GM	aC
74AUP1G57GF	aC
74AUP1G57GN	aC
74AUP1G57GS	aC
74AUP1G57GX	aC

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

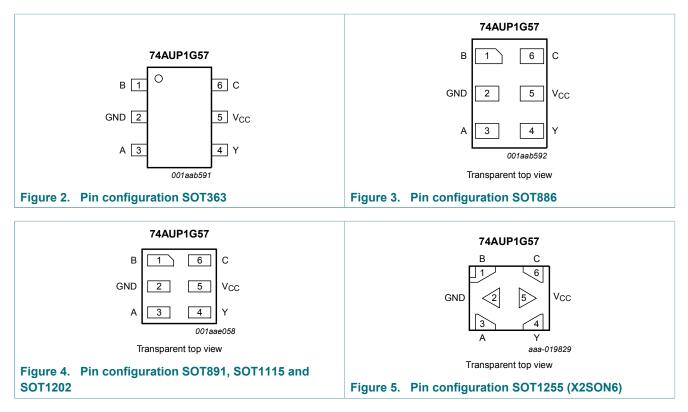
5 Functional diagram



Low-power configurable multiple function gate

6 Pinning information

6.1 Pinning



6.2 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	Н
L	L	Н	L
L	Н	L	Н
L	Н	Н	L
Н	L	L	L
Н	L	Н	L
Н	Н	L	Н
Н	Н	Н	Н

7.1 Logic configurations

Table 5. Function selection table

Logic function	Figure
2-input AND	see <u>Figure 6</u>
2-input AND with both inputs inverted	see Figure 9
2-input NAND with inverted input	see Figure 7 and Figure 8
2-input OR with inverted input	see Figure 7 and Figure 8
2-input NOR	see Figure 9
2-input NOR with both inputs inverted	see <u>Figure 6</u>
2-input XNOR	see Figure 10
Inverter	see Figure 11
Buffer	see Figure 12

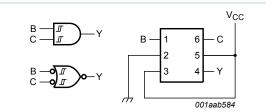


Figure 6. 2-input AND gate or 2-input NOR gate with both inputs inverted

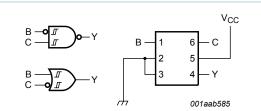
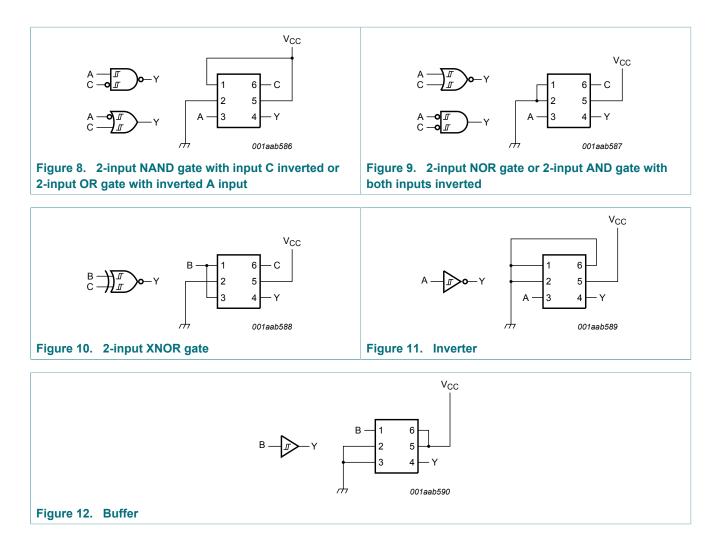


Figure 7. 2-input NAND gate with input B inverted or 2-input OR gate with inverted C input

74AUP1G57

Low-power configurable multiple function gate



Low-power configurable multiple function gate

Limiting values 8

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
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 SC-88 packages: above 87.5 $^{\circ}$ C the value of P_{tot} derates linearly with 4.0 mW/K.

For X2SON6 and XSON6 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

Recommended operating conditions 9

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	Мах	Unit
T _{amb} = 2	5 °C					
V _{OH}	HIGH-level output voltage	$V_{I} = V_{T+} \text{ or } V_{T-}$				
		$I_{\rm O}$ = -20 µA; $V_{\rm CC}$ = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	$0.75 \times V_{CC}$	-	-	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
		$I_{\rm O}$ = -2.3 mA; $V_{\rm CC}$ = 2.3 V	2.05	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.9	-	-	V
		$I_{\rm O}$ = -2.7 mA; $V_{\rm CC}$ = 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	-	-	$0.3 \times V_{CC}$	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	input leakage current	V_1 = 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
∆I _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±0.2	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	$V_0 = GND; V_{CC} = 0 V$	-	1.7	-	pF

74AUP1G57

Low-power configurable multiple function gate

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -4	10 °C to +85 °C				1	
V _{OH}	HIGH-level output voltage	$V_{I} = V_{T+}$ or V_{T-}				
		$I_{\rm O}$ = -20 µA; $V_{\rm CC}$ = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	$0.7 \times V_{CC}$	-	-	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
		$I_{\rm O}$ = -2.3 mA; $V_{\rm CC}$ = 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	$V_{I} = V_{T+} \text{ or } V_{T-}$				
		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	-	-	$0.3 \times V_{CC}$	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
		$I_{\rm O}$ = 2.3 mA; $V_{\rm CC}$ = 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
li –	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 or V_0 = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.5	μA
ΔI _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±0.6	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	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	-	-	50	μA

74AUP1G57

Low-power configurable multiple function gate

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -4	10 °C to +125 °C					
V _{OH}	HIGH-level output voltage	$V_{I} = V_{T+}$ or V_{T-}				
		$I_{\rm O}$ = -20 µA; $V_{\rm CC}$ = 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
		$I_{\rm O}$ = -2.3 mA; $V_{\rm CC}$ = 2.3 V	1.77	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.67	-	-	V
		$I_{\rm O}$ = -2.7 mA; $V_{\rm CC}$ = 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-}				
		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
li –	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
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

Low-power configurable multiple function gate

11 Dynamic characteristics

Table 9. Dynamic characteristics

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

Symbol	Parameter	Conditions		25 °C		-4	0 °C to +1	25 °C	Unit
				Typ ^[1]	Мах	Min	Max (85 °C)	Max (125 °C)	
C _L = 5 pl	F								
t _{pd}	propagation delay	A, B and C to Y; [2] see Figure 13							
		V _{CC} = 0.8 V	-	22.6	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.8	6.5	12.6	2.5	13.0	13.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.2	4.6	7.6	2.5	8.2	8.6	ns
		V _{CC} = 1.65 V to 1.95 V	2.1	3.9	6.2	2.0	6.8	7.2	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	3.1	4.5	1.8	5.1	5.3	ns
		V _{CC} = 3.0 V to 3.6 V	1.8	2.8	3.9	1.5	4.1	4.3	ns
C _L = 10	ρF								
t _{pd}	propagation delay	A, B and C to Y; [2] see Figure 13							
		V _{CC} = 0.8 V	-	26.1	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.2	7.3	14.4	2.8	14.9	15.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.6	5.2	8.7	2.8	9.3	9.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.5	4.5	7.0	2.2	7.8	8.2	ns
		V_{CC} = 2.3 V to 2.7 V	2.4	3.7	5.2	2.1	5.9	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	2.3	3.4	4.6	1.9	4.9	5.1	ns
C _L = 15	ρF								
t _{pd}	propagation delay	A, B and C to Y; [2] see Figure 13							
		V _{CC} = 0.8 V	-	31.6	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.4	8.0	15.7	3.1	16.7	17.0	ns
		V _{CC} = 1.4 V to 1.6 V	2.8	5.7	9.4	3.1	10.4	10.9	ns
		V _{CC} = 1.65 V to 1.95 V	2.6	4.9	7.7	2.5	8.7	9.2	ns
		V_{CC} = 2.3 V to 2.7 V	2.6	4.1	5.7	2.4	6.5	6.9	ns
		V _{CC} = 3.0 V to 3.6 V	2.5	3.8	5.0	2.2	5.5	5.7	ns

74AUP1G57

Low-power configurable multiple function gate

Symbol	Parameter	Conditions	25 °C			-40 °C to +125 °C			Unit
				Typ ^[1]	Max	Min	Max (85 °C)	Max (125 °C)	
C _L = 30 p	pF								
t _{pd}	propagation delay	A, B and C to Y; [2] see <u>Figure 13</u>							
		V _{CC} = 0.8 V	-	37.8	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.6	10.4	20.9	3.9	21.8	22.3	ns
		V _{CC} = 1.4 V to 1.6 V	3.6	7.4	12.2	3.8	13.4	14.1	ns
		V _{CC} = 1.65 V to 1.95 V	3.5	6.2	9.9	3.1	11.1	11.8	ns
		V _{CC} = 2.3 V to 2.7 V	3.4	5.2	7.4	3.1	8.3	8.8	ns
		V _{CC} = 3.0 V to 3.6 V	3.2	4.9	6.6	2.8	7.0	7.4	ns
C _L = 5 pl	F, 10 pF, 15 pF and	30 pF						1	
C _{PD}	power dissipation	$f_i = 1 \text{ MHz}; V_1 = \text{GND to } V_{\text{CC}}$ ^{[3] [4]}							
	capacitance	V _{CC} = 0.8 V	-	2.6	-	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.8	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	2.9	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	3.1	-	-	-	-	pF
		V_{CC} = 2.3 V to 2.7 V	-	3.7	-	-	-	-	pF
		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}.
 All specified values are the average typical values over all stated loads.
 C_{PD} is used to determine the dynamic power dissipation (P_D in µW). P_D = C_{PD} x V_{CC}² x f_i x N + Σ(C_L x V_{CC}² x f_o) where:

 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

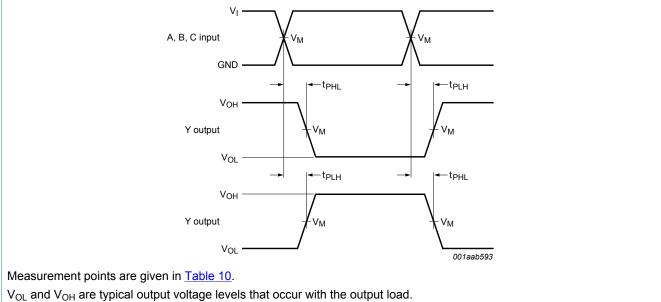
C_L = output load capacitance in pF;

 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.

Low-power configurable multiple function gate

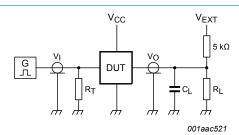


11.1 Waveforms and test circuit

Figure 13. 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	
0.8 V to 3.6 V	0.5 x V _{CC}	0.5 x V _{CC}	V _{CC}	≤ 3.0 ns	



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.

Figure 14. Test circuit for measuring switching times

Low-power configurable multiple function gate

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 k Ω or 1 M Ω	open	GND	$2 \times V_{CC}$

[1] For measuring enable and disable times, $R_L = 5 k\Omega$. For measuring propagation delays, set-up and hold times, and pulse width, $R_L = 1 M\Omega$.

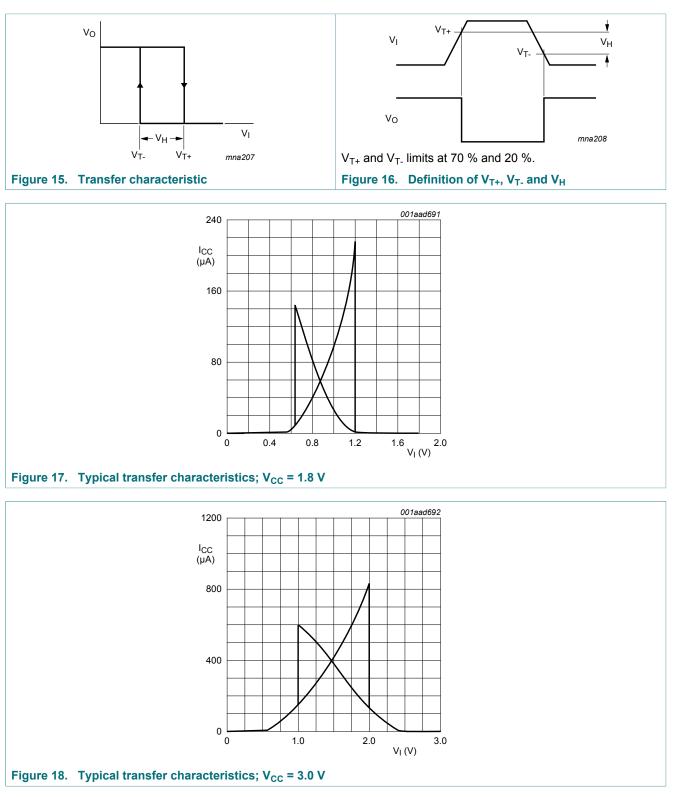
11.2 Transfer characteristics

Table 12. Transfer characteristics

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

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

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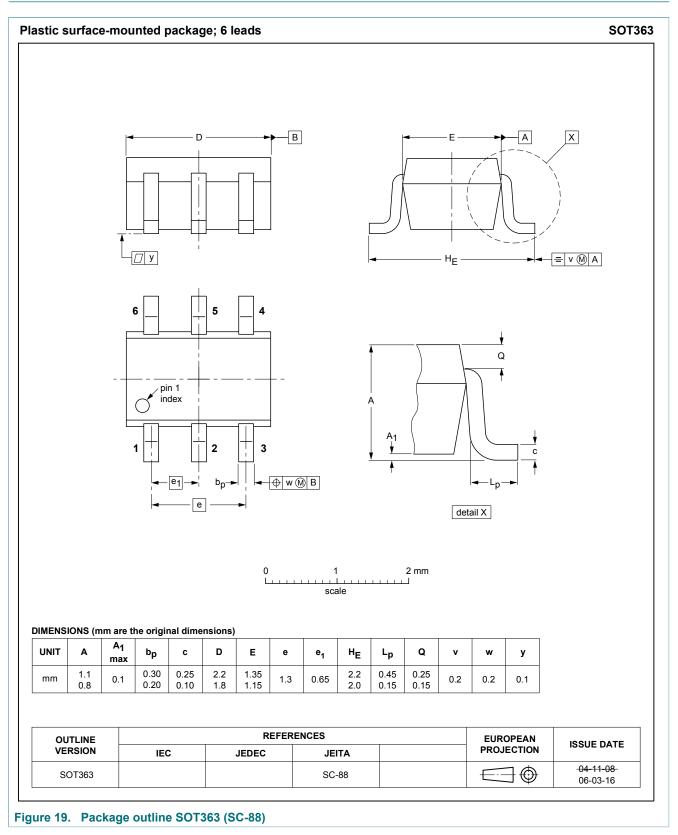


11.3 Waveform transfer characteristics

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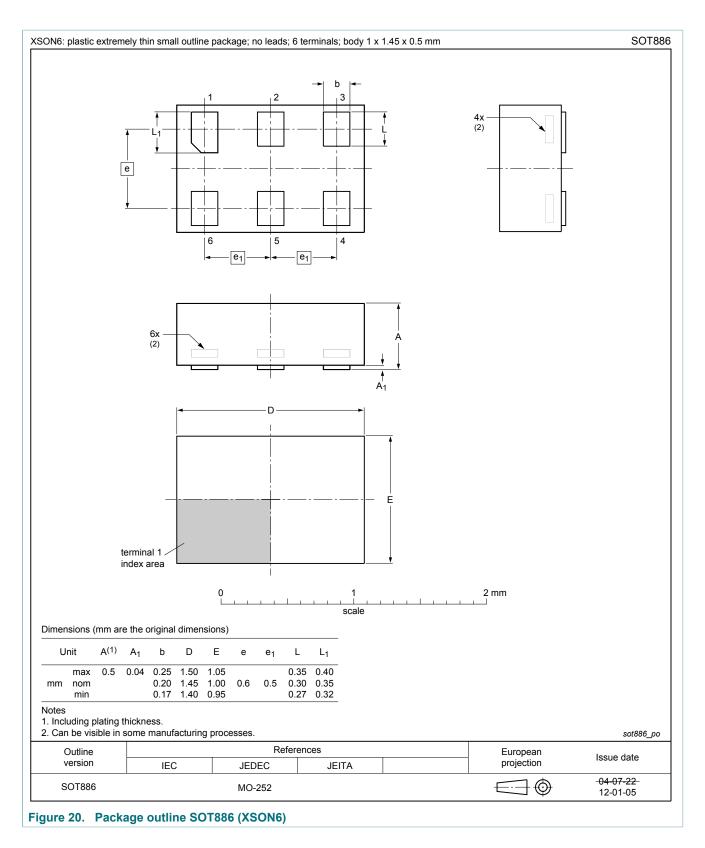
12 Package outline



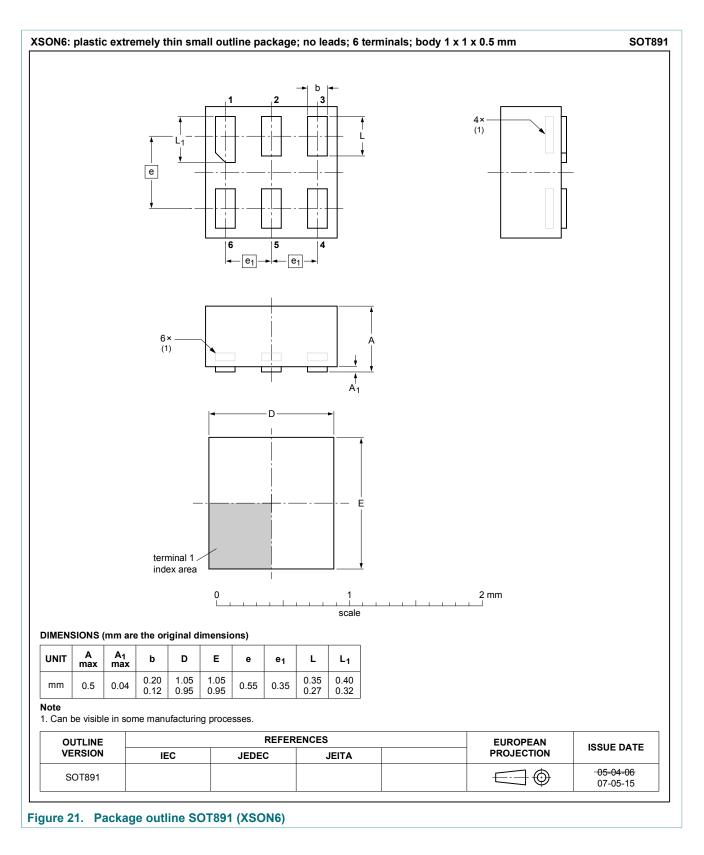
74AUP1G57 Product data sheet

15/24

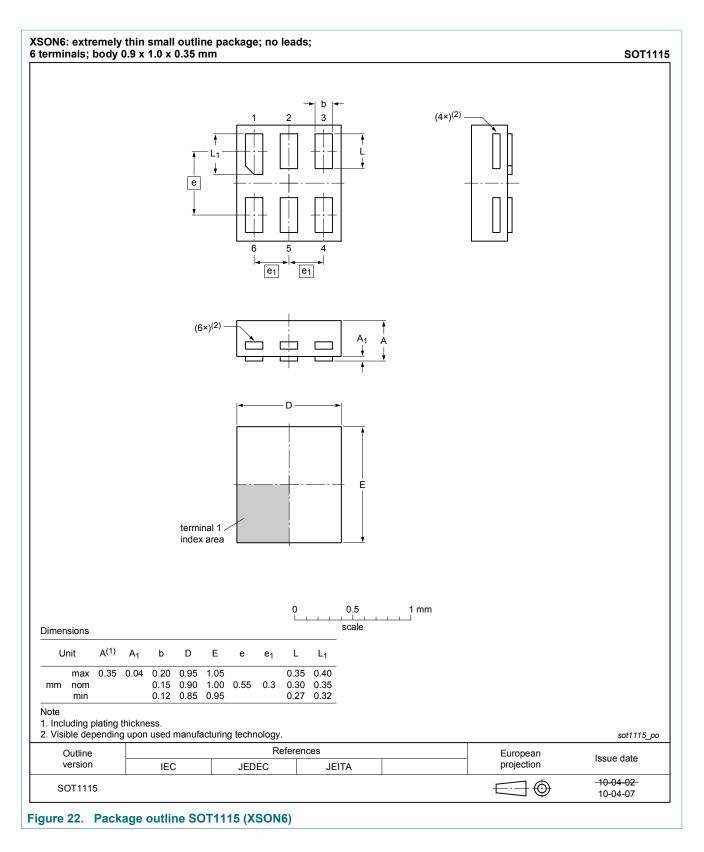
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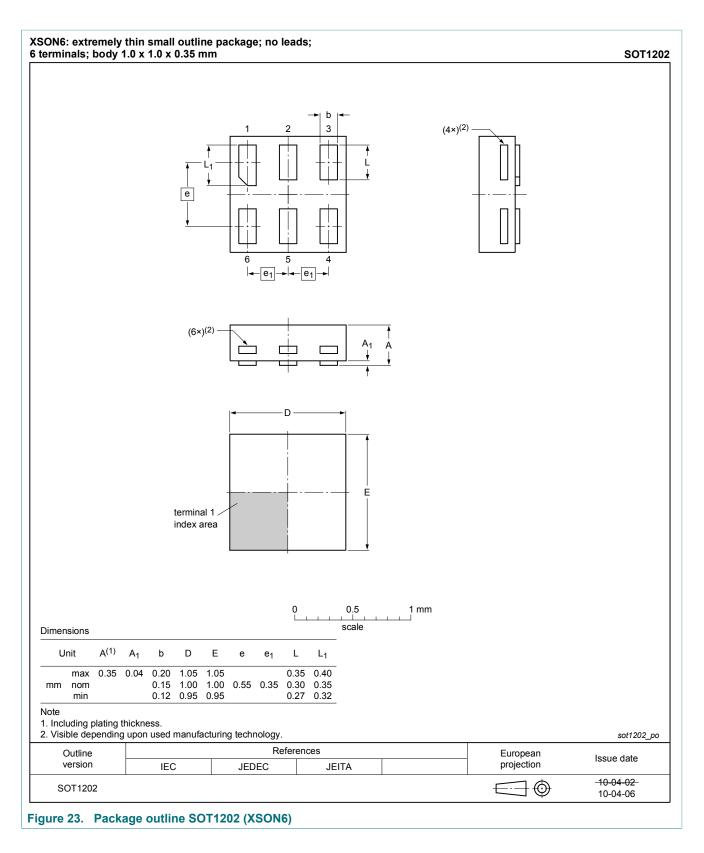
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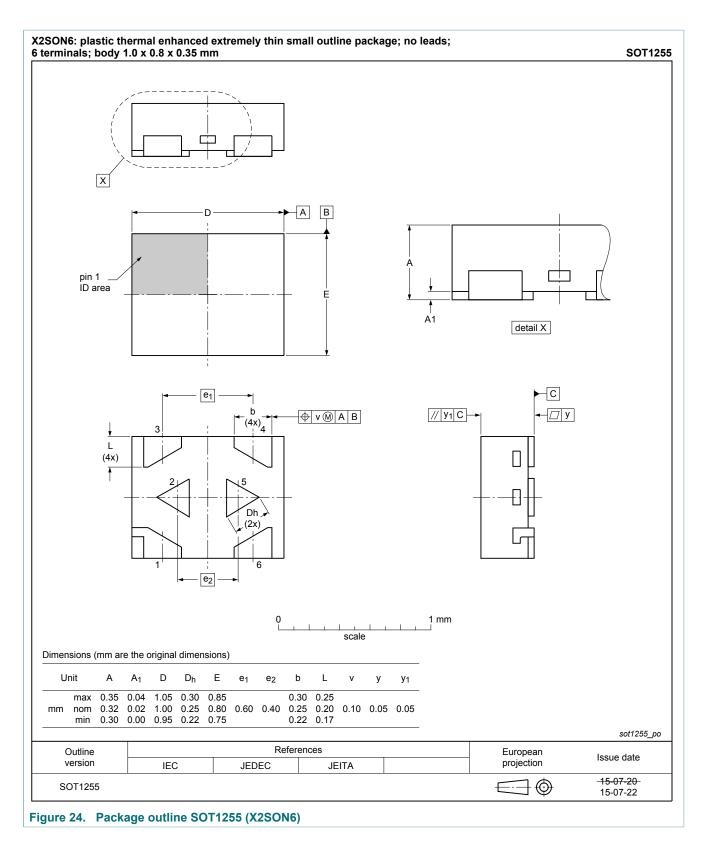
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13 Abbreviations

Table 13. Abbreviations				
Acronym	Description			
CDM	Charged Device Model			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
НВМ	Human Body Model			
ММ	Machine Model			

14 Revision history

Table 14. Revision history Document ID **Release date** Data sheet status Change notice Supersedes 74AUP1G57 v.8 20180223 Product data sheet 74AUP1G57 v.7 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. 74AUP1G57 v.7 20150916 Product data sheet _ 74AUP1G57 v.6 • Added type number 74AUP1G57GX (SOT1255/X2SON6). Modifications: 74AUP1G57 v.6 20120815 Product data sheet 74AUP1G57 v.5 Modifications: • Package outline drawing of SOT886 (Figure 20) modified. 74AUP1G57 v.5 20111125 Product data sheet 74AUP1G57 v.4 74AUP1G57 v.4 Product data sheet 20100720 74AUP1G57 v.3 _ Product data sheet 74AUP1G57 v.3 20090622 74AUP1G57 v.2 _ Product data sheet 74AUP1G57 v.2 20090323 74AUP1G57 v.1 _ 74AUP1G57 v.1 20061123 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. [1]

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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74AUP1G57

Low-power configurable multiple function 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	
6.1	Pinning	3
6.2	Pin description	
7	Functional description	
7.1	Logic configurations	4
8	Limiting values	6
9	Recommended operating conditions	
10	Static characteristics	7
11	Dynamic characteristics	10
11.1	Waveforms and test circuit	12
11.2	Transfer characteristics	13
11.3	Waveform transfer characteristics	14
12	Package outline	15
13	Abbreviations	21
14	Revision history	21
15	Legal information	

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