74AUP1G02-Q100

Low-power 2-input NOR gate Rev. 4.2 — 3 August 2023

1. General description

The 74AUP1G02-Q100 is a single 2-input NOR 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.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
 - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 0.8 V to 3.6 V
- CMOS low power dissipation
- High noise immunity
- Overvoltage tolerant inputs to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- IOFF circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Low static power consumption; I_{CC} = 0.9 μA (maximum)
 - 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)
 - JESD8-B (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

3. Ordering information

Table 1. Ordering information

Type number	Package						
	Temperature range Name Description Ve			Version			
74AUP1G02GW-Q100	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	<u>SOT353-1</u>			

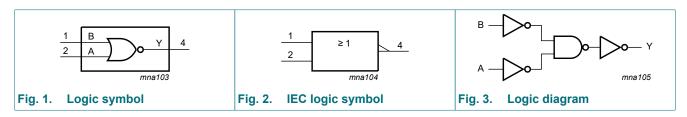
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4. Marking

Table 2. Marking	
Type number	Marking code[1]
74AUP1G02GW-Q100	рВ

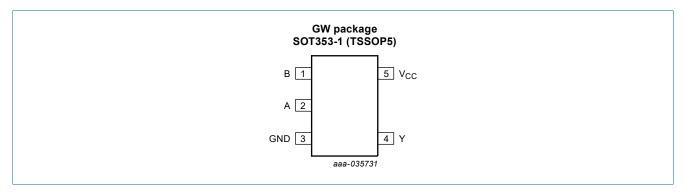
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

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

7. Functional description

Table 4. Function table

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

Input		Output
Α	В	Y
L	L	Н
L	Н	L
н	L	L
Н	Н	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 _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I _{OK}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V	-	±50	mA
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
lo	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 SOT353-1 (TSSOP5) 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	1	II			
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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	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 _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_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.2	μA
ΔI _{OFF}	additional power-off leakage current	$V_1 \text{ or } V_0 = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±0.2	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	μA
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 V; I_0 = 0 A; V_{CC} = 3.3 V$ [1]	-	-	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

Symbo	I Parameter	Conditions	Min	Тур	Max	Unit
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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	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
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.55	-	-	V
V _{OL}	LOW-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	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
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_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.5	μA
ΔI _{OFF}	additional power-off leakage current	$V_{I} \text{ or } V_{O} = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 0.2 \text{ V}$	-	-	±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	$V_{I} = V_{CC} - 0.6 V; I_{O} = 0 A; V_{CC} = 3.3 V$ [1]	-	-	50	μA
T _{amb} =	-40 °C to +125 °C	1	I			
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

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{OH}	HIGH-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	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 _{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 _l	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	$V_{I} \text{ or } V_{O} = 0 \text{ V to } 3.6 \text{ V; } V_{CC} = 0 \text{ V}$	-	-	±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	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	1.4	μA
ΔI _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$ [1]	-	-	75	μA

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

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions	Min	Тур [1]	Max	Unit
T _{amb} = 2	5 °C; C _L = 5 pF					
t _{pd}	propagation delay	A, B to Y; see <u>Fig. 4</u> [2]				
		V _{CC} = 0.8 V	-	17.0	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.5	5.1	10.8	ns
		V _{CC} = 1.4 V to 1.6 V	1.6	3.7	6.7	ns
		V _{CC} = 1.65 V to 1.95 V	1.3	3.0	5.3	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.4	3.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.2	3.4	ns

Symbol	Parameter	Conditions	Mir	n Typ [1]	Max	Unit
T _{amb} = 2	25 °C; C _L = 10 pF					
t _{pd}	propagation delay	A, B to Y; see Fig. 4	[2]			
		V _{CC} = 0.8 V	-	20.4	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.4	6.0	12.8	ns
		V _{CC} = 1.4 V to 1.6 V	1.9	4.3	7.9	ns
		V _{CC} = 1.65 V to 1.95 V	1.6	3.6	6.2	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	3.0	4.7	ns
		V _{CC} = 3.0 V to 3.6 V	1.3	2.7	4.2	ns
T _{amb} = 2	25 °C; C _L = 15 pF					
t _{pd}	propagation delay	A, B to Y; see Fig. 4	[2]			
		V _{CC} = 0.8 V	-	23.9	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.4	6.8	14.6	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.8	8.9	ns
		V _{CC} = 1.65 V to 1.95 V	1.9	4.0	7.0	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	3.4	5.4	ns
		V _{CC} = 3.0 V to 3.6 V	1.6	3.2	4.8	ns
T _{amb} = 2	25 °C; C _L = 30 pF			i		
t _{pd}	propagation delay	A, B to Y; see Fig. 4	[2]			
		V _{CC} = 0.8 V	-	34.2	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.6	9.0	19.9	ns
		V _{CC} = 1.4 V to 1.6 V	3.4	6.4	11.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.6	5.3	9.3	ns
		V _{CC} = 2.3 V to 2.7 V	2.4	4.5	7.1	ns
		V _{CC} = 3.0 V to 3.6 V	2.3	4.2	6.4	ns
T _{amb} = 2	5 °C			·		
C _{PD}	power dissipation	$f = 1 MHz; V_I = GND to V_{CC}$	[3]			
	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	-	2.9	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	3.1	-	pF
		V_{CC} = 2.3 V to 2.7 V	-	3.5	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.1	-	pF

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

[1] Fin typical values are instantial total to the function of the same as t_{PLH} and t_{PHL} . [2] t_{pd} is the same as t_{PLH} and t_{PHL} . [3] 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; $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs.

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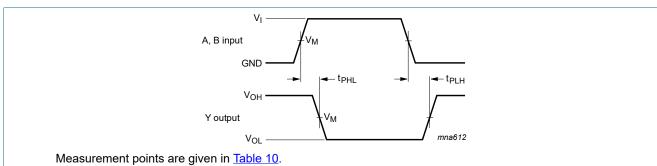
Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5

Symbol	Parameter	Conditions	-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Max	Min	Max	1
C _L = 5 p	F						
t _{pd}	propagation delay	A, B to Y; see <u>Fig. 4</u> [1]					
		V _{CC} = 1.1 V to 1.3 V	2.1	12.1	2.1	13.4	ns
		V _{CC} = 1.4 V to 1.6 V	1.4	7.8	1.4	8.6	ns
		V _{CC} = 1.65 V to 1.95 V	1.1	6.2	1.1	6.9	ns
		V _{CC} = 2.3 V to 2.7 V	0.9	4.6	0.9	5.1	ns
		V _{CC} = 3.0 V to 3.6 V	0.8	4.0	0.8	4.4	ns
C _L = 10	pF						
t _{pd}	propagation delay	A, B to Y; see <u>Fig. 4</u> [1]					
		V _{CC} = 1.1 V to 1.3 V	2.2	14.3	2.2	15.8	ns
		V _{CC} = 1.4 V to 1.6 V	1.7	9.2	1.7	10.2	ns
		V _{CC} = 1.65 V to 1.95 V	1.5	7.3	1.5	8.1	ns
		V _{CC} = 2.3 V to 2.7 V	1.2	5.6	1.2	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.2	5.0	1.2	5.5	ns
C _L = 15	pF						
t _{pd}	propagation delay	A, B to Y; see <u>Fig. 4</u> [1]					
		V _{CC} = 1.1 V to 1.3 V	3.1	16.4	3.1	18.1	ns
		V _{CC} = 1.4 V to 1.6 V	2.0	10.4	2.0	11.5	ns
		V _{CC} = 1.65 V to 1.95 V	1.7	8.3	1.7	9.2	ns
		V _{CC} = 2.3 V to 2.7 V	1.5	6.3	1.5	7.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	5.7	1.4	6.3	ns
C _L = 30	pF						
t _{pd}	propagation delay	A, B to Y; see <u>Fig. 4</u> [1]					
		V _{CC} = 1.1 V to 1.3 V	4.1	22.4	4.1	24.7	ns
		V _{CC} = 1.4 V to 1.6 V	2.9	13.9	2.9	15.3	ns
		V _{CC} = 1.65 V to 1.95 V	2.3	11.1	2.3	12.3	ns
		V _{CC} = 2.3 V to 2.7 V	2.1	8.5	2.1	9.4	ns
		V _{CC} = 3.0 V to 3.6 V	2.1	7.7	2.1	8.5	ns

[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

11.1. Waveform and test circuit



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

Fig. 4. The data input (A or B) to output (Y) propagation delays

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	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{CC}	≤ 3.0 ns

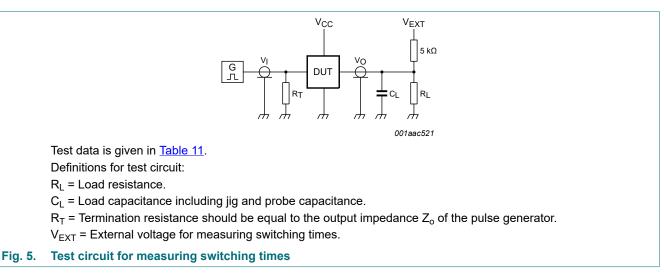


Table 11. Test data

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 $M\Omega.$

12. Package outline

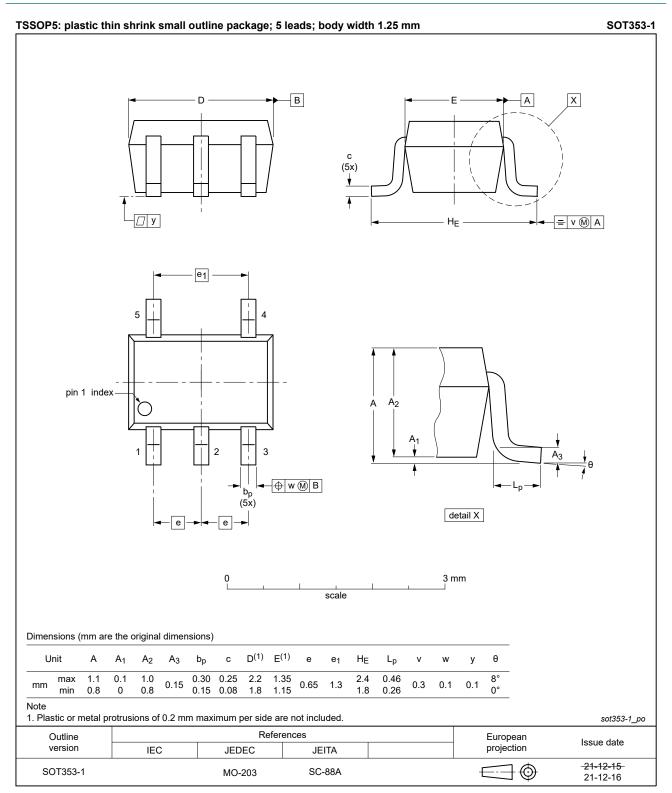


Fig. 6. Package outline SOT353-1 (TSSOP5)

74AUP1G02_Q100

13. Abbreviations

Table 12. Abbreviations			
Acronym	Description		
CDM	Charged Device Model		
CMOS	Complementary Metal Oxide Semiconductor		
DUT	Device Under Test		
ESD	ElectroStatic Discharge		
HBM	Human Body Model		
MM	Machine Model		

14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AUP1G02_Q100 v.4.2	20230803	Product data sheet	-	74AUP1G02_Q100 v.3	
Modifications:	• <u>Section 2</u> : E	• <u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.			
74AUP1G02_Q100 v.3	20220113	Product data sheet	-	74AUP1G02_Q100 v.2	
Modifications:	• <u>Fig. 6</u> : Pack	• Fig. 6: Package outline drawing for SOT353-1 (TSSOP5) has changed.			
74AUP1G02_Q100 v.2	20210803	Product data sheet	-	74AUP1G02_Q100 v.1	
Modifications:	guidelines of Legal texts <u>Section 1</u> a IEC logic sy	 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. <u>Section 1</u> and <u>Section 2</u> updated. IEC logic symbol <u>Fig. 2</u> modified. <u>Table 5</u>: Derating values for P_{tot} total power dissipation have been updated. 			
74AUP1G02_Q100 v.1	20140604	Product data sheet	-	-	

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.

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- [2] The term 'short data sheet' is explained in section "Definitions".
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Low-power 2-input NOR gate

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