# 74AUP1T98-Q100

Low-power configurable gate with voltage-level translator
Rev. 5 — 17 July 2023 Product data sheet

## 1. General description

The 74AUP1T98-Q100 is a configurable multiple function gate with level translating, Schmitt-trigger inputs. The device can be configured as any of the following logic functions MUX, AND, OR, NAND, NOR, 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.

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 2.3 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<sub>CC</sub> = 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<sub>CC</sub>
- I<sub>OFF</sub> 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

## 3. Ordering information

### Table 1. Ordering information

Type number	Package	kage								
	Temperature range Name Description Ver									
74AUP1T98GW-Q100	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	SOT363-2						

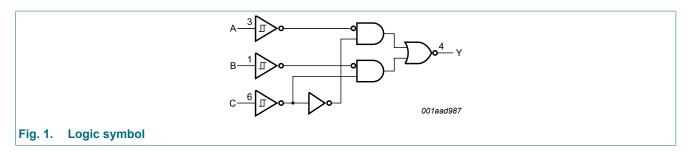


## 4. Marking

### Table 2. Marking

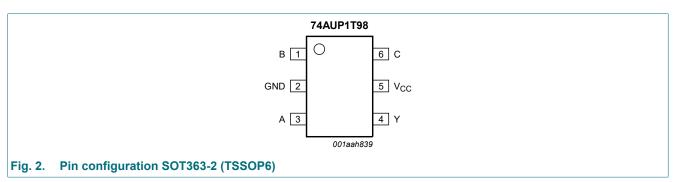
Type number	Marking code
74AUP1T98GW-Q100	aR

# 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
Υ	4	data output
V <sub>CC</sub>	5	supply voltage
С	6	data input

# 7. Functional description

#### **Table 4. Function table**

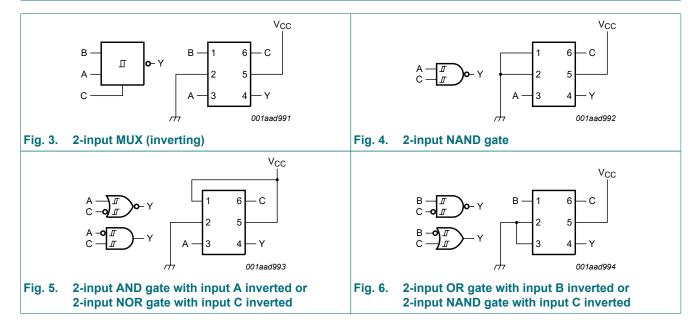
 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$ 

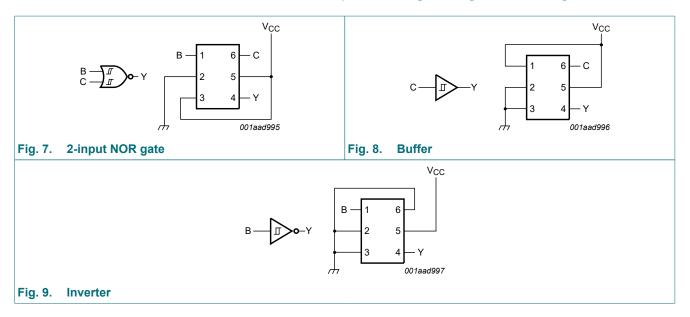
Input			Output
С	В	A	Υ
L	L	L	Н
L	L	Н	Н
L	Н	L	L
L	Н	Н	L
Н	L	L	Н
Н	L	Н	L
Н	Н	L	Н
Н	Н	Н	L

## 7.1. Logic configurations

**Table 5. Function selection table** 

Tuble 6.1 unction selection tuble	
Logic function	Figure
2-input MUX (inverting)	see Fig. 3
2-input NAND	see Fig. 4
2-input NOR with one input inverted	see Fig. 5
2-input AND with one input inverted	see Fig. 5
2-input NAND with one input inverted	see Fig. 6
2-input OR with one input inverted	see Fig. 6
2-input NOR	see Fig. 7
Buffer	see Fig. 8
Inverter	see Fig. 9





# 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 <sub>CC</sub>	supply voltage		-0.5	+4.6	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V	-50	-	mA
V <sub>O</sub>	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
I <sub>O</sub>	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±20	mA
I <sub>CC</sub>	supply current		-	+50	mA
$I_{GND}$	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	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.
- [2] For SOT363-2 (TSSOP6) package: Ptot derates linearly with 3.7 mW/K above 83 °C.

# 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 <sub>CC</sub>	V
		Power-down mode; V <sub>CC</sub> = 0 V	0	3.6	V
T <sub>amb</sub>	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 <sub>amb</sub> = 2	5 °C					
V <sub>T+</sub>	positive-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.75	-	1.16	V
V <sub>T-</sub>	negative-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.35	-	0.60	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.50	-	0.85	V
V <sub>H</sub>	hysteresis voltage	$V_H = V_{T+} - V_{T-}$				
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.23	-	0.60	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.25	-	0.56	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.3 V to 3.6 V	V <sub>CC</sub> - 0.1	-	-	V
		I <sub>O</sub> = -2.3 mA; V <sub>CC</sub> = 2.3 V	2.05	-	-	V
		I <sub>O</sub> = -3.1 mA; V <sub>CC</sub> = 2.3 V	1.9	-	-	V
		I <sub>O</sub> = -2.7 mA; V <sub>CC</sub> = 3.0 V	2.72	-	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.6	-	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.3 V to 3.6 V	-	-	0.10	V
		I <sub>O</sub> = 2.3 mA; V <sub>CC</sub> = 2.3 V	-	-	0.31	V
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.44	V
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.31	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.44	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = GND to 3.6 V; V <sub>CC</sub> = 0 V to 3.6 V	-	-	±0.1	μΑ
l <sub>OFF</sub>	power-off leakage current	$V_I$ or $V_O = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.1	μΑ
Δl <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.2	μΑ
I <sub>CC</sub>	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 <sub>amb</sub> = -4	40 °C to +85 °C					
V <sub>T+</sub>	positive-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.75	-	1.19	V
V <sub>T-</sub>	negative-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.35	-	0.60	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.50	-	0.85	V
V <sub>H</sub>	hysteresis voltage	$V_H = V_{T+} - V_{T-}$				
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.10	-	0.60	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.15	-	0.56	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.3 V to 3.6 V	V <sub>CC</sub> - 0.1	-	-	V
		I <sub>O</sub> = -2.3 mA; V <sub>CC</sub> = 2.3 V	1.97	-	-	V
		I <sub>O</sub> = -3.1 mA; V <sub>CC</sub> = 2.3 V	1.85	-	-	V
		I <sub>O</sub> = -2.7 mA; V <sub>CC</sub> = 3.0 V	2.67	-	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.55	-	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.3 V to 3.6 V	-	-	0.1	V
		I <sub>O</sub> = 2.3 mA; V <sub>CC</sub> = 2.3 V	-	-	0.33	V
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.45	V
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.33	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.45	V
I <sub>I</sub>	input leakage current	$V_{I}$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.5	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 0 V$ to 3.6 V; $V_{CC} = 0 V$	-	-	±0.5	μA
Δl <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.5	μΑ
I <sub>CC</sub>	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 <sub>CC</sub>	additional supply current	$V_{CC}$ = 2.3 V to 2.7 V; $I_{O}$ = 0 A; One input at 0.3 V or 1.1 V, other inputs at $V_{CC}$ or GND	-	-	4	μΑ
		$V_{CC}$ = 3.0 V to 3.6 V; $I_{O}$ = 0 A; One input at 0.45 V or 1.2 V, other inputs at $V_{CC}$ or GND	-	-	12	μΑ

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T <sub>amb</sub> = -	40 °C to +125 °C					
V <sub>T+</sub>	positive-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.60	-	1.10	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.75	-	1.19	V
V <sub>T-</sub>	negative-going threshold	V <sub>CC</sub> = 2.3 V to 2.7 V	0.33	-	0.64	V
	voltage	V <sub>CC</sub> = 3.0 V to 3.6 V	0.46	-	0.85	V
V <sub>H</sub>	hysteresis voltage	$V_H = V_{T+} - V_{T-}$				
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.10	-	0.60	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.15	-	0.56	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.3 V to 3.6 V	V <sub>CC</sub> - 0.11	-	-	V
		I <sub>O</sub> = -2.3 mA; V <sub>CC</sub> = 2.3 V	1.77	-	-	V
		I <sub>O</sub> = -3.1 mA; V <sub>CC</sub> = 2.3 V	1.67	-	-	V
		I <sub>O</sub> = -2.7 mA; V <sub>CC</sub> = 3.0 V	2.40	-	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.30	-	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_I = V_{T+}$ or $V_{T-}$				
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.3 V to 3.6 V	-	-	0.11	V
		$I_{O}$ = 2.3 mA; $V_{CC}$ = 2.3 V		-	0.36	V
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.50	V
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.36	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.50	V
lį	input leakage current	$V_{I}$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.75	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.75	μA
Δl <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.75	μΑ
I <sub>CC</sub>	supply current	V <sub>I</sub> = GND or V <sub>CC</sub> ; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 2.3 V to 3.6 V	-	-	3.5	μA
ΔI <sub>CC</sub>	additional supply current	$V_{CC}$ = 2.3 V to 2.7 V; $I_{O}$ = 0 A; One input at 0.3 V or 1.1 V, other inputs at $V_{CC}$ or GND	-	-	7	μΑ
		V <sub>CC</sub> = 3.0 V to 3.6 V; I <sub>O</sub> = 0 A; One input at 0.45 V or 1.2 V, other inputs at V <sub>CC</sub> or GND	-	-	22	μA

# 11. Dynamic characteristics

## **Table 9. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 11.

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Typ [1]	Max	Min	Max	Min	Max	
V <sub>CC</sub> = 2.3 V to 2.7 V; V <sub>I</sub> = 1.65 V to 1.95 V										
t <sub>pd</sub>	propagation delay	A, B, C to Y; see <u>Fig. 10</u> [2]								
		C <sub>L</sub> = 5 pF	2.0	3.6	5.7	0.5	6.8	0.5	7.5	ns
		C <sub>L</sub> = 10 pF	2.5	4.2	6.3	1.0	7.9	1.0	8.7	ns
		C <sub>L</sub> = 15 pF	2.9	4.6	6.9	1.0	8.7	1.0	9.6	ns
		C <sub>L</sub> = 30 pF	3.9	5.8	8.3	1.5	10.8	1.5	11.9	ns

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	Min	Max	
V <sub>CC</sub> = 2.	3 V to 2.7 V; V	<sub>I</sub> = 2.3 V to 2.7 V				·			'	
t <sub>pd</sub>	propagation	A, B, C to Y; see <u>Fig. 10</u> [2]								
	delay	C <sub>L</sub> = 5 pF	1.7	3.4	5.6	0.5	6.0	0.5	6.6	ns
		C <sub>L</sub> = 10 pF	2.1	4.0	6.3	1.0	7.1	1.0	7.9	ns
		C <sub>L</sub> = 15 pF	2.5	4.5	6.9	1.0	7.9	1.0	8.7	ns
		C <sub>L</sub> = 30 pF	3.4	5.6	8.4	1.5	10.0	1.5	11.0	ns
V <sub>CC</sub> = 2.	3 V to 2.7 V; V	V <sub>I</sub> = 3.0 V to 3.6 V	'			1			'	
t <sub>pd</sub>	propagation	A, B, C to Y; see <u>Fig. 10</u> [2]								
	delay	C <sub>L</sub> = 5 pF	1.3	3.2	5.2	0.5	5.5	0.5	6.1	ns
		C <sub>L</sub> = 10 pF	1.8	3.7	5.9	1.0	6.5	1.0	7.2	ns
		C <sub>L</sub> = 15 pF	2.2	4.2	6.5	1.0	7.4	1.0	8.2	ns
		C <sub>L</sub> = 30 pF	3.1	5.4	7.9	1.5	9.5	1.5	10.5	ns
V <sub>CC</sub> = 3.	0 V to 3.6 V; V	V <sub>I</sub> = 1.65 V to 1.95 V		1				l	'	
t <sub>pd</sub>	propagation delay	A, B, C to Y; see <u>Fig. 10</u> [2]								
		C <sub>L</sub> = 5 pF	2.0	2.9	4.1	0.5	8.0	0.5	8.8	ns
		C <sub>L</sub> = 10 pF	2.4	3.5	4.8	1.0	8.5	1.0	9.4	ns
		C <sub>L</sub> = 15 pF	2.8	3.9	5.4	1.0	9.1	1.0	10.1	ns
		C <sub>L</sub> = 30 pF	3.6	5.1	6.9	1.5	9.8	1.5	10.8	ns
V <sub>CC</sub> = 3.	0 V to 3.6 V; V	V <sub>I</sub> = 2.3 V to 2.7 V		<u>'</u>		'			'	
t <sub>pd</sub>	propagation	A, B, C to Y; see <u>Fig. 10</u> [2]								
	delay	C <sub>L</sub> = 5 pF	1.5	2.8	4.4	0.5	5.3	0.5	5.9	ns
		C <sub>L</sub> = 10 pF	2.0	3.4	5.1	1.0	6.1	1.0	6.8	ns
		C <sub>L</sub> = 15 pF	2.4	3.9	5.7	1.0	6.8	1.0	7.5	ns
		C <sub>L</sub> = 30 pF	3.4	5.0	7.2	1.5	8.5	1.5	9.4	ns
V <sub>CC</sub> = 3.	0 V to 3.6 V; V	' <sub>I</sub> = 3.0 V to 3.6 V		'			1		'	
t <sub>pd</sub>		A, B, C to Y; see <u>Fig. 10</u> [2]								
	delay	C <sub>L</sub> = 5 pF	1.3	2.8	4.4	0.5	4.7	0.5	5.2	ns
		C <sub>L</sub> = 10 pF	1.7	3.3	5.2	1.0	5.7	1.0	6.3	ns
		C <sub>L</sub> = 15 pF	2.1	3.8	5.8	1.0	6.2	1.0	6.9	ns
		C <sub>L</sub> = 30 pF	3.1	5.0	7.2	1.5	7.8	1.5	8.6	ns
T <sub>amb</sub> = 2	25 °C	•								
C <sub>PD</sub>	power	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [3]								
	dissipation capacitance	V <sub>CC</sub> = 2.3 V to 2.7 V	-	3.6	-	-	-	-	-	pF
	capacitatice	V <sub>CC</sub> = 3.0 V to 3.6 V	-	4.3	-	-	-	-	-	pF
	1	<u> </u>							1	

<sup>[1]</sup> All typical values are measured at nominal  $V_{CC}$ .

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

f<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

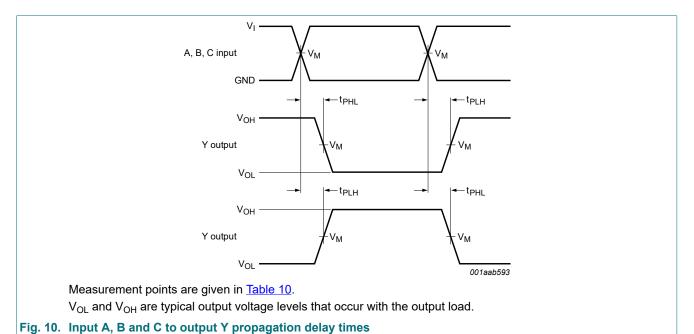
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

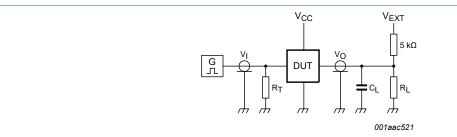
<sup>[2]</sup> t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.
[3] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).

### 11.1. Waveforms and test circuits



**Table 10. Measurement points** 

Supply voltage	Input			Output
V <sub>CC</sub>	V <sub>M</sub>	VI	$t_r = t_f$	V <sub>M</sub>
2.3 V to 3.6 V	0.5 × V <sub>I</sub>	1.65 V to 3.6 V	≤ 3.0 ns	0.5 × V <sub>CC</sub>



Test data is given in Table 11.

Definitions for test circuit:

R<sub>L</sub> = Load resistance;

C<sub>L</sub> = 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<sub>EXT</sub> = External voltage for measuring switching times.

Fig. 11. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	Load		V <sub>EXT</sub>		
V <sub>CC</sub>	CL	R <sub>L</sub> [1]	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
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 <sub>CC</sub>

[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  $M\Omega$ .

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# 12. Package outline

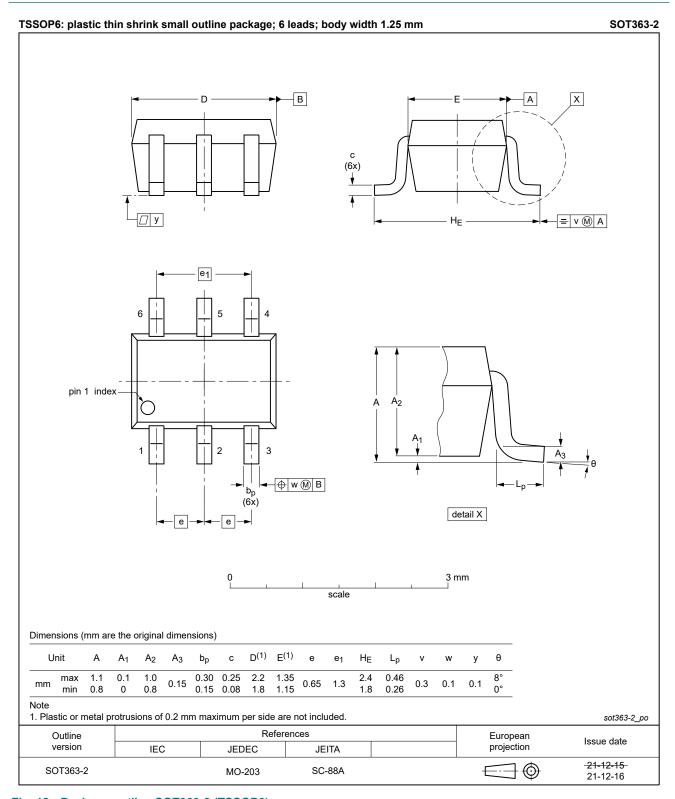


Fig. 12. Package outline SOT363-2 (TSSOP6)

## 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

# 14. Revision history

#### Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AUP1T98_Q100 v.5	20230717	Product data sheet	-	74AUP1T98_Q100 v.4	
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.			
74AUP1T98_Q100 v.4	20220127	Product data sheet	-	74AUP1T98_Q100 v.3	
Modifications:		<ul> <li>Section 2 updated.</li> <li>SOT363 (SC-88) package changed to SOT363-2 (TSSOP6) package.</li> </ul>			
74AUP1T98_Q100 v.3	20201209	Product data sheet	-	74AUP1T98_Q100 v.2	
Modifications:		<ul> <li>Section 1 updated.</li> <li>Table 6: Derating values for P<sub>tot</sub> total power dissipation updated.</li> </ul>			
74AUP1T98_Q100 v.2	20181005	Product data sheet	-	74AUP1T98_Q100 v.1	
Modifications:	guidelines o	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul>			
74AUP1T98_Q100 v.1	20140519	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.

- 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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