# 74HC373-Q100; 74HCT373-Q100

Octal D-type transparent latch; 3-state

Rev. 3 — 5 August 2024

**Product data sheet** 

### 1. General description

The 74HC373-Q100; 74HCT373-Q100 is an octal D-type transparent latch with 3-state outputs. The device features latch enable (LE) and output enable ( $\overline{OE}$ ) inputs. When LE is HIGH, data at the inputs enter the latches. In this condition the latches are transparent, a latch output will change each time its corresponding D-input changes. When LE is LOW the latches store the information that was present at the inputs a set-up time preceding the HIGH-to-LOW transition of LE. A HIGH on  $\overline{OE}$  causes the outputs to assume a high-impedance OFF-state. Operation of the  $\overline{OE}$  input does not affect the state of the latches. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of  $V_{CC}$ .

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 2.0 V to 6.0 V
- · CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards:
  - JESD8C (2.7 V to 3.6 V)
  - JESD7A (2.0 V to 6.0 V)
- Input levels:
  - For 74HC373-Q100: CMOS level
  - For 74HCT373-Q100: TTL level
- · 3-state non-inverting outputs for bus-oriented applications
- Common 3-state output enable input
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- DHVQFN package with Side-Wettable Flanks enabling Automated Optical Inspection (AOI) of solder joints

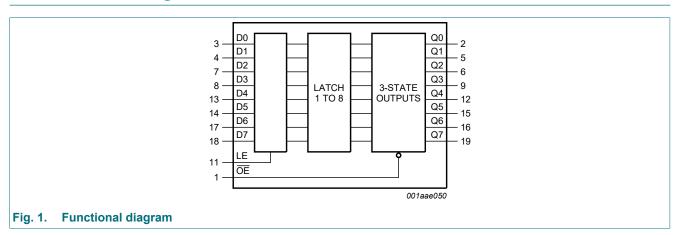


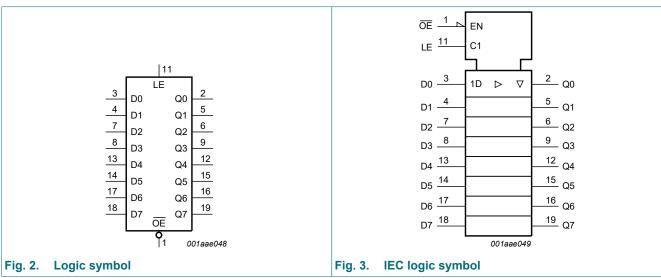
# 3. Ordering information

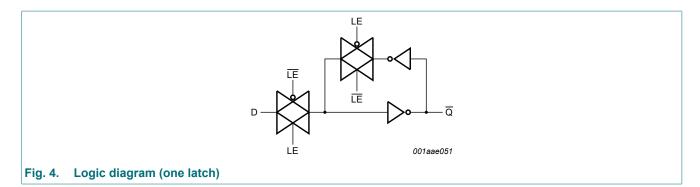
**Table 1. Ordering information** 

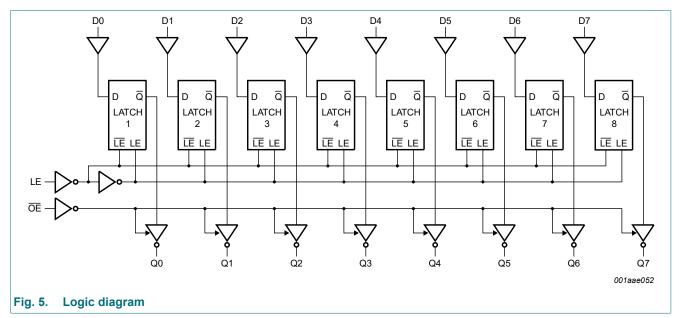
Type number	Package												
	Temperature range	Name	Description	Version									
74HC373D-Q100 74HCT373D-Q100	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1									
74HC373PW-Q100 74HCT373PW-Q100	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1									
74HC373BQ-Q100 74HCT373BQ-Q100	-40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 × 4.5 × 0.85 mm	SOT764-1									

# 4. Functional diagram



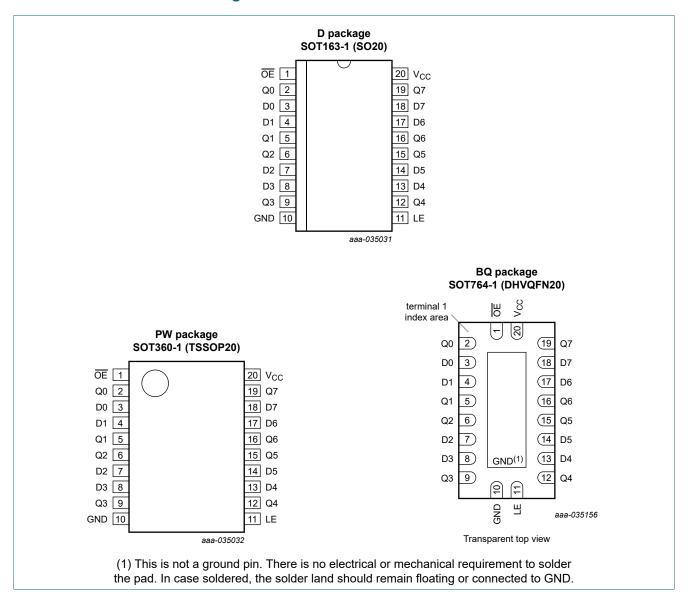






# 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

**Table 2. Pin description** 

Symbol	Pin	Description
ŌE	1	3-state output enable input (active LOW)
Q0, Q1, Q2, Q3, Q4, Q5, Q6, Q7	2, 5, 6, 9, 12, 15, 16, 19	3-state latch output
D0, D1, D2, D3, D4, D5, D6, D7	3, 4, 7, 8, 13, 14, 17, 18	data input
GND	10	ground (0 V)
LE	11	latch enable input (active HIGH)
V <sub>CC</sub>	20	supply voltage

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### 6. Functional description

#### **Table 3. Functional description**

 $H = HIGH \ voltage \ level; \ h = HIGH \ voltage \ level \ one \ set-up \ time \ prior \ to \ the \ HIGH-to-LOW \ LE \ transition;$ 

L = LOW voltage level; I = LOW voltage level one set-up time prior to the HIGH-to-LOW LE transition;

X = don't care; Z = high-impedance OFF-state.

Operating mode	Control		Input	Internal latches	Output
	OE	LE	Dn		Qn
Enable and read register	L	Н	L	L	L
(transparent mode)			Н	Н	Н
Latch and read register	L	L	I	L	L
			h	Н	Н
Latch register and disable outputs	Н	Х	Х	X	Z

# 7. Limiting values

#### **Table 4. 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	+7	V
I <sub>IK</sub>	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	-	±20	mA
lok	output clamping current	$V_{O}$ < -0.5 V or $V_{O}$ > $V_{CC}$ + 0.5 V	-	±20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-	±35	mA
I <sub>CC</sub>	supply current		-	+70	mA
I <sub>GND</sub>	ground current		-	-70	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	[1]	-	500	mW
. 101		1.7			

<sup>[1]</sup> For SOT163-1 (SO20) package: P<sub>tot</sub> derates linearly with 12.3 mW/K above 109 °C. For SOT360-1 (TSSOP20) package: P<sub>tot</sub> derates linearly with 10.0 mW/K above 100 °C. For SOT764-1 (DHVQFN20) package: P<sub>tot</sub> derates linearly with 12.9 mW/K above 111 °C.

# 8. Recommended operating conditions

#### Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	741	HC373-Q	100	74H	CT373-C	2100	Unit
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	ns/V

# 9. Static characteristics

#### **Table 6. Static characteristics**

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	T <sub>aı</sub>	<sub>nb</sub> = 25	°C		-40 °C 5 °C		: -40 °C 25 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	1
74HC37	3-Q100									
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	٧
	voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 2.0 V	-	8.0	0.5	-	0.5	-	0.5	V
	voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>	-	-	-					
	voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O}$ = -20 $\mu$ A; $V_{CC}$ = 6.0 $V$	5.9	6.0	-	5.9	-	5.9	-	V
		I <sub>O</sub> = -6.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I <sub>O</sub> = -7.8 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$								
	voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 7.8 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 6.0 \text{ V}$ ; $V_O = V_{CC}$ or GND	-	-	±0.5	-	±5.0	-	±10.0	μA
I <sub>CC</sub>	supply current	$V_{CC} = 6.0 \text{ V}; I_O = 0 \text{ A};$ $V_I = V_{CC} \text{ or GND}$	-	-	8.0	-	80	-	160	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT3	73-Q100		'	'	'		'	·	'	
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	voltage	$I_{O}$ = -20 µA; $V_{CC}$ = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -6.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	٧
V <sub>OL</sub>	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$								
	voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0.0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 6.0 mA; V <sub>CC</sub> = 4.5 V	-	0.16	0.26	-	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA

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Symbol	Parameter	Conditions	T <sub>ar</sub>	<sub>nb</sub> = 25	°C		-40 °C 5 °C	T <sub>amb</sub> = to 12	Unit	
			Min	Тур	Max	Min	Max	Min	Max	
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 5.5$ V; $V_O = V_{CC}$ or GND	-	-	±0.5	-	±5.0	-	±10	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	8.0	-	80	-	160	μΑ
ΔI <sub>CC</sub>	additional supply current	$V_I = V_{CC} - 2.1 \text{ V};$ other inputs at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V; $I_O = 0 \text{ A}$								
		Dn	-	30	108	-	135	-	147	μΑ
		LE	-	150	540	-	675	-	735	μΑ
		ŌĒ	-	100	360	-	450	-	490	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

# 10. Dynamic characteristics

#### **Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V);  $C_L$  = 50 pF unless otherwise specified; for test circuit see Fig. 10.

Symbol	Parameter	Conditions	T <sub>ai</sub>	<sub>mb</sub> = 25	°C		-40 °C 35 °C		-40 °C 25 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC37	3-Q100									
t <sub>pd</sub>	propagation	Dn to Qn; see Fig. 6 [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	41	150	-	190	-	225	ns
		V <sub>CC</sub> = 4.5 V	-	15	30	-	38	-	45	ns
		V <sub>CC</sub> = 5 V; C <sub>L</sub> = 15 pF	-	12	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	12	26	-	33	-	38	ns
		LE to Qn; see Fig. 7								
		V <sub>CC</sub> = 2.0 V	-	50	175	-	220	-	265	ns
		V <sub>CC</sub> = 4.5 V	-	18	35	-	44	-	53	ns
		V <sub>CC</sub> = 5 V; C <sub>L</sub> = 15 pF	-	15	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	14	30	-	37	-	45	ns
t <sub>en</sub>	enable time	OE to Qn; see Fig. 8 [2]								
		V <sub>CC</sub> = 2.0 V	-	44	150	-	190	-	225	ns
		V <sub>CC</sub> = 4.5 V	-	16	30	-	38	-	45	ns
		V <sub>CC</sub> = 6.0 V	-	13	26	-	33	-	38	ns
t <sub>dis</sub>	disable time	OE to Qn; see Fig. 8 [3]								
		V <sub>CC</sub> = 2.0 V	-	47	150	-	190	-	225	ns
		V <sub>CC</sub> = 4.5 V	-	17	30	-	38	-	45	ns
		V <sub>CC</sub> = 6.0 V	-	14	26	-	33	-	38	ns
t <sub>t</sub>	transition time	Qn; see Fig. 6 and Fig. 7 [4]								
		V <sub>CC</sub> = 2.0 V	-	14	60	-	75	-	90	ns
		V <sub>CC</sub> = 4.5 V	-	5	12	-	15	-	18	ns
		V <sub>CC</sub> = 6.0 V	-	4	10	-	13	-	15	ns

Symbol	Parameter	Conditions		T <sub>am</sub>	<sub>ib</sub> = 25	°C		-40 °C 35 °C	T <sub>amb</sub> = -40 °C to +125 °C		Unit
			Mi	n	Тур	Max	Min	Max	Min	Max	
t <sub>W</sub>	pulse width	LE HIGH; see Fig. 7									
		V <sub>CC</sub> = 2.0 V	80	)	17	-	100	-	120	-	ns
		V <sub>CC</sub> = 4.5 V	16	3	6	-	20	-	24	-	ns
		V <sub>CC</sub> = 6.0 V	14	4	5	-	17	-	20	-	ns
t <sub>su</sub>	set-up time	Dn to LE; see Fig. 9									
		V <sub>CC</sub> = 2.0 V	50	)	14	-	65	-	75	-	ns
		V <sub>CC</sub> = 4.5 V	10	)	5	-	13	-	15	-	ns
		V <sub>CC</sub> = 6.0 V	9	)	4	-	11	-	13	-	ns
t <sub>h</sub>	hold time	Dn to LE; see Fig. 9									
		V <sub>CC</sub> = 2.0 V	+:	5	-8	-	5	-	5	-	ns
		V <sub>CC</sub> = 4.5 V	+:	5	-3	-	5	-	5	-	ns
		V <sub>CC</sub> = 6.0 V	+:	5	-2	-	5	-	5	-	ns
C <sub>PD</sub>	power dissipation capacitance	per latch; $V_I$ = GND to $V_{CC}$	[5] -		45	-	-	-	-	-	pF
74HCT3	73-Q100										
t <sub>pd</sub>	propagation	Dn to Qn; see Fig. 6	[1]								
	delay	V <sub>CC</sub> = 4.5 V	-		17	30	-	38	-	45	ns
		V <sub>CC</sub> = 5 V; C <sub>L</sub> = 15 pF	-		14	-	-	-	-	-	ns
		LE to Qn; see Fig. 7									
		V <sub>CC</sub> = 4.5 V	-		16	32	-	40	-	48	ns
		V <sub>CC</sub> = 5 V; C <sub>L</sub> = 15 pF	-		13	-	-	-	-	-	ns
t <sub>en</sub>	enable time	OE to Qn; V <sub>CC</sub> = 4.5 V; see Fig. 8	[2] -		19	32	-	40	-	48	ns
t <sub>dis</sub>	disable time	OE to Qn; V <sub>CC</sub> = 4.5 V; see Fig. 8	[3] -		18	30	-	38	-	45	ns
t <sub>t</sub>	transition time	Qn; V <sub>CC</sub> = 4.5 V; see <u>Fig. 6</u> and <u>Fig. 7</u>	[4] -		5	12	-	15	-	18	ns
t <sub>W</sub>	pulse width	LE HIGH; V <sub>CC</sub> = 4.5 V; see <u>Fig. 7</u>	16	3	4	-	20	-	24	-	ns
t <sub>su</sub>	set-up time	Dn to LE; V <sub>CC</sub> = 4.5 V; see <u>Fig. 9</u>	12	2	6	-	15	-	18	-	ns
t <sub>h</sub>	hold time	Dn to LE; V <sub>CC</sub> = 4.5 V; see <u>Fig. 9</u>	4		-1	-	4	-	4	-	ns
C <sub>PD</sub>	power dissipation capacitance	per latch; V <sub>I</sub> = GND to (V <sub>CC</sub> - 1.5 V)	[5] -		41	-	-	-	-	-	pF

<sup>[1]</sup>  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .

 $f_i$  = 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;

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

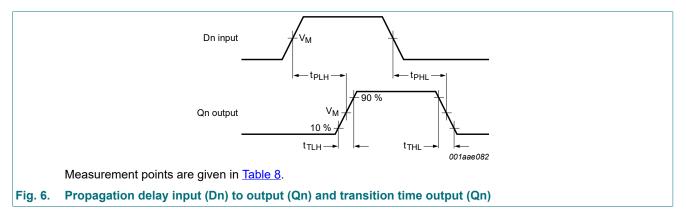
<sup>[2]</sup>  $t_{en}$  is the same as  $t_{PZH}$  and  $t_{PZL}$ .

<sup>[3]</sup>  $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .

 $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ .

<sup>[5]</sup>  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ 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:

#### 10.1. Waveforms and test circuit



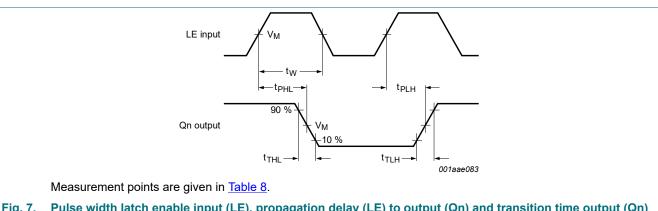
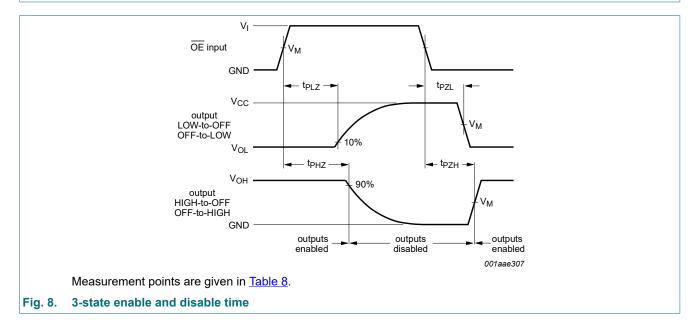
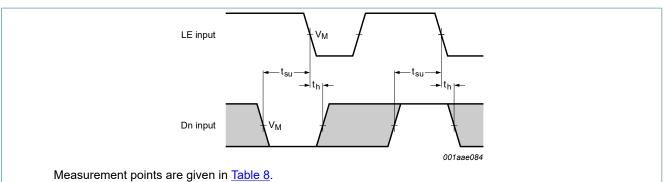


Fig. 7. Pulse width latch enable input (LE), propagation delay (LE) to output (Qn) and transition time output (Qn)

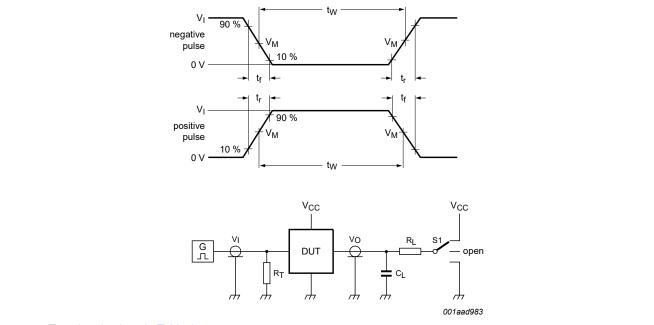




Set-up and hold time data input (Dn) to latch enable input (LE)

**Table 8. Measurement points** 

Туре	Input	Output
	V <sub>M</sub>	V <sub>M</sub>
74HC373-Q100	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>
74HCT373-Q100	1.3 V	1.3 V



Test data is given in Table 9.

Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_0$  of the pulse generator;

 $C_L$  = Load capacitance including jig and probe capacitance;

R<sub>I</sub> = Load resistor;

S1 = Test selection switch.

Fig. 10. Test circuit for measuring switching times

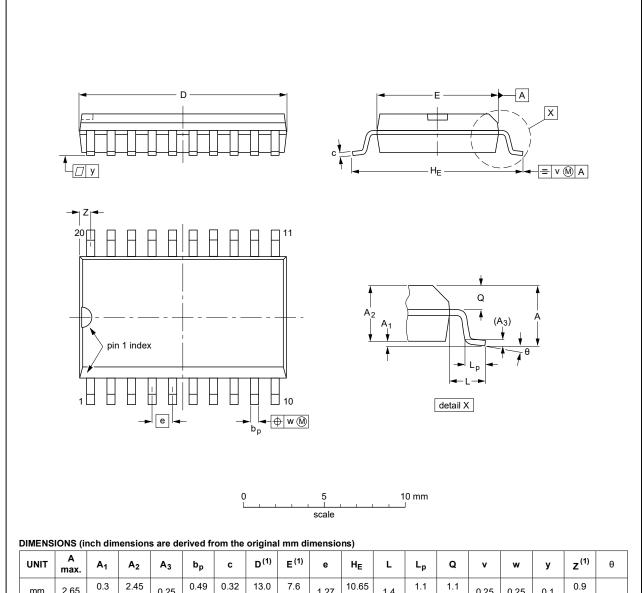
Table 9. Test data

Туре	Input		Load		S1 position				
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>		
74HC373-Q100	V <sub>CC</sub>	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>		
74HCT373-Q100	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>		

# 11. Package outline

#### SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	Q	v	w	у	z <sup>(1)</sup>	θ
mm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	13.0 12.6	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8°
inches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.51 0.49	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	0°

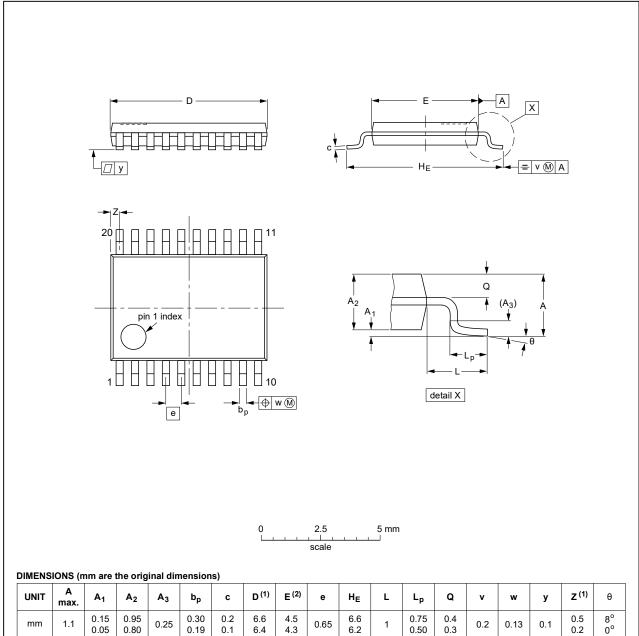
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT163-1	075E04	MS-013				<del>99-12-27</del> 03-02-19	

Fig. 11. Package outline SOT163-1 (SO20)

TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm

SOT360-1



UNIT	A max.	<b>A</b> <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	b <sub>p</sub>	С	D <sup>(1)</sup>	E (2)	е	HE	L	Lp	Q	٧	w	у	Z <sup>(1)</sup>	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	6.6 6.4	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.5 0.2	8° 0°

#### Notes

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT360-1		MO-153				<del>99-12-27</del> 03-02-19	

Fig. 12. Package outline SOT360-1 (TSSOP20)

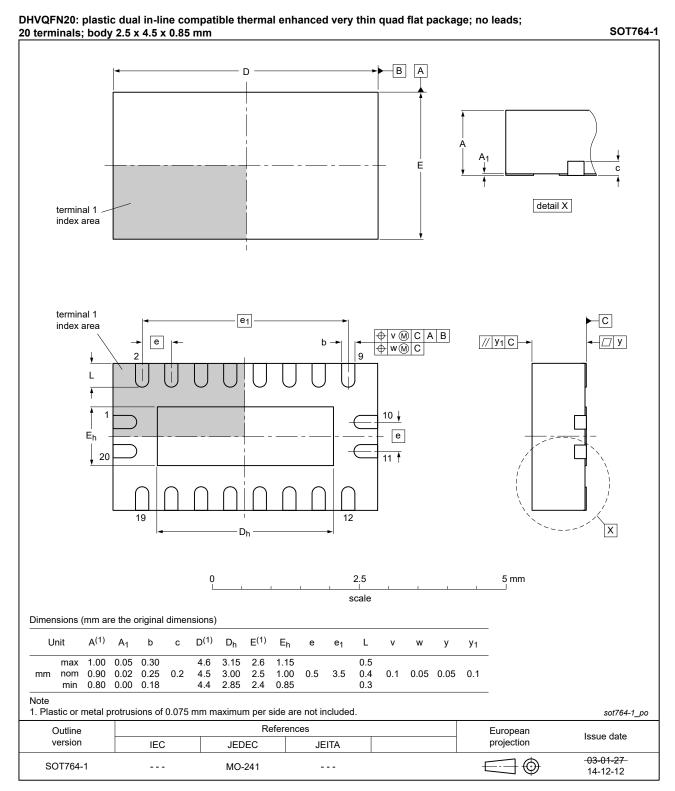


Fig. 13. Package outline SOT764-1 (DHVQFN20)

# 12. Abbreviations

#### **Table 10. Abbreviations**

Acronym	Description
ANSI	American National Standards Institute
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
НВМ	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

# 13. Revision history

#### **Table 11. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes			
74HC_HCT373_Q100 v.3	20240805	Product data sheet	-	74HC_HCT373_Q100 v.2			
Modifications:	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.						
74HC_HCT373_Q100 v.2	20200722	Product data sheet	-	74HC_HCT373_Q100 v.1			
Modifications:	<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> <li>Section 1 and Section 2 updated.</li> <li>Table 4: Derating values for P<sub>tot</sub> total power dissipation updated.</li> <li>Table 6: Conditions I<sub>OZ</sub> updated.</li> <li>Fig. 13: Package outline drawing SOT764-1 (DHVQFN20) updated.</li> </ul>						
74HC_HCT373_Q100 v.1	20120810	-					

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### 14. 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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Product data sheet

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For more information, please visit: http://www.nexperia.com For sales office addresses, please send an email to: salesaddresses@nexperia.com Date of release: 5 August 2024

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