# 74HC273; 74HCT273

Octal D-type flip-flop with reset; positive-edge trigger

Rev. 7 — 6 September 2021 Product data sheet

# 1. General description

The 74HC273; 74HCT273 is an octal positive-edge triggered D-type flip-flop. The device features clock (CP) and master reset ( $\overline{\text{MR}}$ ) inputs. The outputs Qn will assume the state of their corresponding Dn inputs that meet the set-up and hold time requirements on the LOW-to-HIGH clock (CP) transition. A LOW on  $\overline{\text{MR}}$  forces the outputs LOW independently of clock and data inputs. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

### 2. Features and benefits

- 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 74HC273: CMOS level
  - For 74HCT273: TTL level
- Common clock and master reset
- Eight positive edge-triggered D-type flip-flops
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- · Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

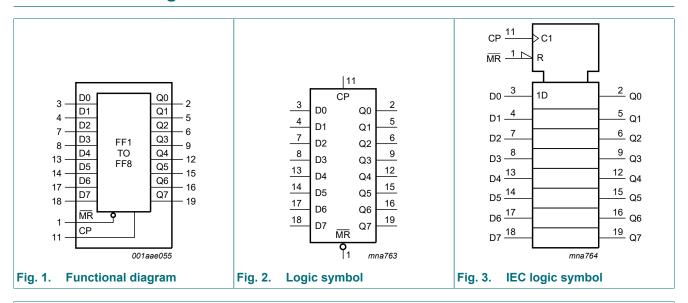
# 3. Ordering information

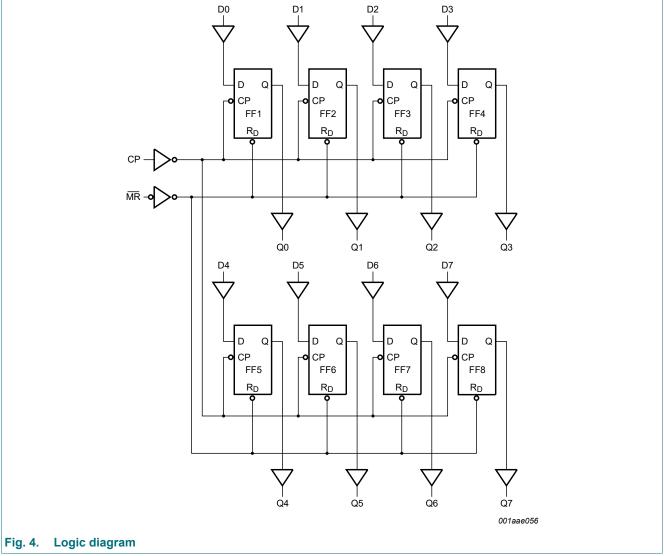
**Table 1. Ordering information** 

Type number	Package			
	Temperature range	Name	Description	Version
74HC273D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1
74HCT273D				
74HC273PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads;	SOT360-1
74HCT273PW			body width 4.4 mm	
74HC273BQ	-40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced	SOT764-1
74HCT273BQ			very thin quad flat package; no leads; 20 terminals; body 2.5 × 4.5 × 0.85 mm	



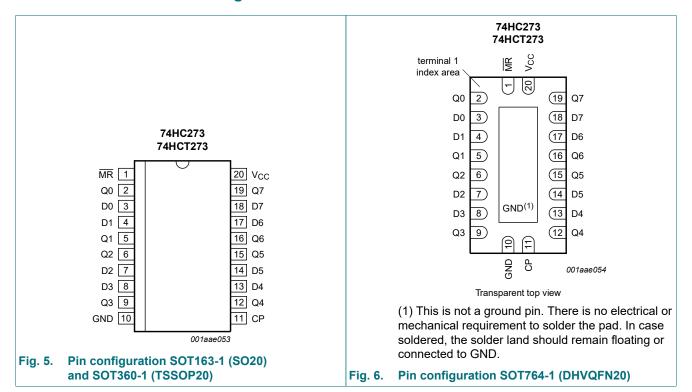
# 4. Functional diagram





# 5. Pinning information

### 5.1. Pinning



# 5.2. Pin description

Table 2. Pin description

Pin	Description
1	master reset input (active LOW)
2, 5, 6, 9, 12, 15, 16, 19	flip-flop output
3, 4, 7, 8, 13, 14, 17, 18	data input
10	ground (0 V)
11	clock input (LOW-to-HIGH, edge-triggered)
20	supply voltage
	1 2, 5, 6, 9, 12, 15, 16, 19 3, 4, 7, 8, 13, 14, 17, 18 10 11

# 6. Functional description

### **Table 3. Function table**

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

 $X = don't \ care; \uparrow = LOW-to-HIGH \ clock \ transition.$ 

Operating modes	Inputs	nputs						
	MR	СР	Dn	Qn				
reset (clear)	L	Х	Х	L				
load "1"	Н	<b>↑</b>	h	Н				
load "0"	Н	<b>↑</b>	I	L				

# 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	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$ [1	] -	±20	mA
I <sub>OK</sub>	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$ [1	] -	±20	mA
Io	output current	-0.5 V < V <sub>O</sub> < V <sub>CC</sub> + 0.5 V	-	±25	mA
I <sub>CC</sub>	supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$	-	500	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

For SOT360-1 (TSSOP20) package:  $P_{tot}$  derates linearly with 10.0 mW/K above 100  $^{\circ}\text{C}.$ 

For SOT764-1 (DHVQFN20) package: Ptot 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	74HC273		7	'4HCT27	3	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>	٧
T <sub>amb</sub>	ambient temperature		-40	-	+125	-40	-	+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

<sup>[2]</sup> For SOT163-1 (SO20) package: P<sub>tot</sub> derates linearly with 12.3 mW/K above 109 °C.

# 9. Static characteristics

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

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

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC27	3					1	1	1	'	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input 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	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input 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	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output 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 <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		$I_O = -4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	V
		$I_O = -5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	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
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 5.2 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	-	±1	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0 \text{ V}$	-	-	8.0	-	80	-	160	μΑ
C <sub>I</sub>	input capacitance		-	3.5	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT2	73						<u>'</u>		<u>'</u>	
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 V <sub>CC</sub> = 4.5 V to 5.5 V input voltage		-	1.2	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -20 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	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> = 5.2 mA; V <sub>CC</sub> = 5.5 V	-	0.15	0.26	-	0.33	-	0.4	V
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1	-	±1	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	per input pin; $V_I = V_{CC}$ - 2.1 V; other inputs at $V_{CC}$ or GND; $V_{CC}$ = 4.5 V to 5.5 V								
		MR input	-	100	360	-	450	-	490	μΑ
		CP input	-	175	630	-	787.5	-	857.5	μΑ
		Dn input	-	15	54	-	67.5	-	73.5	μΑ
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

# 10. Dynamic characteristics

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

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

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC27	3									
t <sub>pd</sub>	propagation	CP to Qn; see Fig. 7 [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	41	150	-	185	-	225	ns
		V <sub>CC</sub> = 4.5 V	-	15	30	-	37	-	45	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	15	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	13	26	-	31	-	38	ns
t <sub>PHL</sub>	HIGH to LOW	MR to Qn; see Fig. 8								
	propagation delay	V <sub>CC</sub> = 2.0 V	-	44	150	-	185	-	225	ns
	delay	V <sub>CC</sub> = 4.5 V	-	16	30	-	37	-	45	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	15	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	14	26	-	31	-	38	ns

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
t <sub>t</sub>	transition time	Qn output; see Fig. 7 [2]								
		V <sub>CC</sub> = 2.0 V	-	19	75	-	95	-	110	ns
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V	-	6	13	-	15	-	19	ns
t <sub>W</sub>	pulse width	CP input HIGH or LOW; see Fig. 7								
		V <sub>CC</sub> = 2.0 V	80	14	-	100	-	120	-	ns
		V <sub>CC</sub> = 4.5 V	16	5	-	20	-	24	-	ns
		V <sub>CC</sub> = 6.0 V	14	4	-	17	-	20	-	ns
		MR input LOW; see Fig. 8								
		V <sub>CC</sub> = 2.0 V	60	17	-	75	-	90	-	ns
		V <sub>CC</sub> = 4.5 V	12	6	-	15	-	18	-	ns
		V <sub>CC</sub> = 6.0 V	10	5	-	13	-	15	-	ns
t <sub>rec</sub>	recovery time	MR to CP; see Fig. 8								
		V <sub>CC</sub> = 2.0 V	50	-6	-	65	-	75	-	ns
		V <sub>CC</sub> = 4.5 V	10	-2	-	13	-	15	-	ns
		V <sub>CC</sub> = 6.0 V	9	-2	-	11	-	13	-	ns
t <sub>su</sub>	set-up time	Dn to CP; see Fig. 9								
		V <sub>CC</sub> = 2.0 V	60	11	-	75	-	90	-	ns
		V <sub>CC</sub> = 4.5 V	12	4	-	15	-	18	-	ns
		V <sub>CC</sub> = 6.0 V	10	3	-	13	-	15	-	ns
t <sub>h</sub>	hold time	Dn to CP; see Fig. 9								
		V <sub>CC</sub> = 2.0 V	3	-6	-	3	-	3	-	ns
		V <sub>CC</sub> = 4.5 V	3	-2	-	3	-	3	-	ns
		V <sub>CC</sub> = 6.0 V	3	-2	-	3	-	3	-	ns
f <sub>max</sub>	maximum	CP input; see Fig. 7								
	frequency	V <sub>CC</sub> = 2.0 V	6	20.6	-	4.8	-	4	-	MHz
		V <sub>CC</sub> = 4.5 V	30	103	-	24	-	20	-	MHz
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	66	-	-	-	-	-	MHz
		V <sub>CC</sub> = 6.0 V	35	122	-	28	-	24	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per package; [3] V <sub>I</sub> = GND to V <sub>CC</sub>	-	20	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT2	73						1	1	'	
t <sub>pd</sub>	propagation	CP to Qn; see Fig. 7 [1]								
	delay	V <sub>CC</sub> = 4.5 V	-	16	30	-	38	-	45	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	15	-	-	-	-	-	ns
t <sub>PHL</sub>	HIGH to LOW	MR to Qn; see Fig. 8								
	propagation delay	V <sub>CC</sub> = 4.5 V	-	23	34	-	43	-	51	ns
	delay	V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	20	-	-	-	-	-	ns
t <sub>t</sub>	transition time	Qn output; see Fig. 7 [2	]							
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
t <sub>W</sub>	pulse width	CP input; see Fig. 7								
		V <sub>CC</sub> = 4.5 V	16	9	-	20	-	24	-	ns
		MR input LOW; see Fig. 8								
		V <sub>CC</sub> = 4.5 V	16	8	-	20	-	24	-	ns
t <sub>rec</sub>	recovery time	MR to CP; see Fig. 8								
		V <sub>CC</sub> = 4.5 V	10	-2	-	13	-	15	-	ns
t <sub>su</sub>	set-up time	Dn to CP; see Fig. 9								
		V <sub>CC</sub> = 4.5 V	12	5	-	15	-	18	-	ns
t <sub>h</sub>	hold time	Dn to CP; see Fig. 9								
		V <sub>CC</sub> = 4.5 V	3	-4	-	3	-	3	-	ns
f <sub>max</sub>	maximum	CP input; see Fig. 7								
	frequency	V <sub>CC</sub> = 4.5 V	30	56	-	24	-	20	-	MHz
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	36	-	-	-	-	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per package; [3 V <sub>I</sub> = GND to V <sub>CC</sub> - 1.5 V	] -	23	-	-	-	-	-	pF

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

 $\Sigma$  (C<sub>L</sub> x V<sub>CC</sub>  $^2$  x f<sub>o</sub>) = sum of outputs; C<sub>L</sub> = output load capacitance in pF;

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

<sup>[1]</sup>  $t_{pd}$  is the same as  $t_{PHL}$  and  $t_{PLH}$ . [2]  $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ . [3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma (C_L \times V_{CC}^2 \times f_o)$  where:  $f_i$  = input frequency in MHz;

### 10.1. Waveforms and test circuit

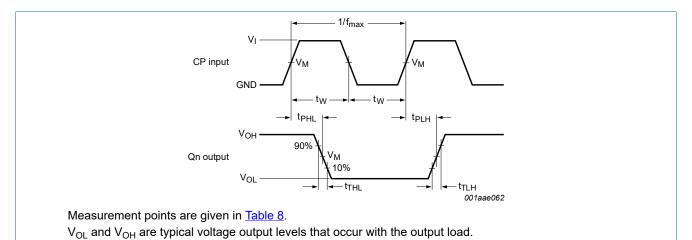
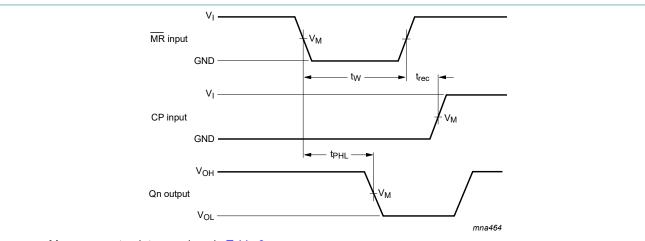


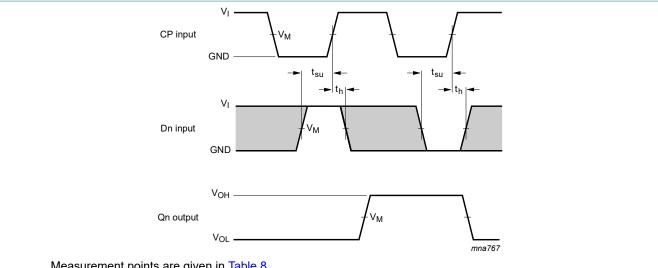
Fig. 7. Propagation delay clock input (CP) to output (Qn), clock (CP) pulse width, output transition time and the maximum clock pulse frequency



Measurement points are given in Table 8.

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

Fig. 8. Propagation delay master reset (MR) to output (Qn), pulse width master reset (MR) and recovery time master reset (MR) to clock (CP)



Measurement points are given in Table 8.

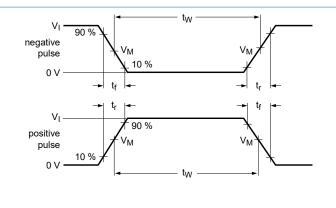
The shaded areas indicate when the input is permitted to change for predictable output performance.

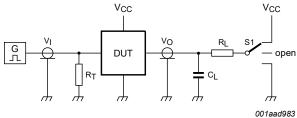
 $V_{OL}$  and  $V_{OH}$  are typical voltage output levels that occur with the output load.

Data set-up and hold times data input (Dn) Fig. 9.

**Table 8. Measurement points** 

Туре	Input	Output	
	V <sub>I</sub>	V <sub>M</sub>	V <sub>M</sub>
74HC273	V <sub>CC</sub>	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
74HCT273	3 V	1.3 V	1.3 V





Test data is given in Table 9.

Definitions for test circuit:

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

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

 $R_{I}$  = Load resistance.

S1 = Test selection switch.

Fig. 10. Test circuit for measuring switching times

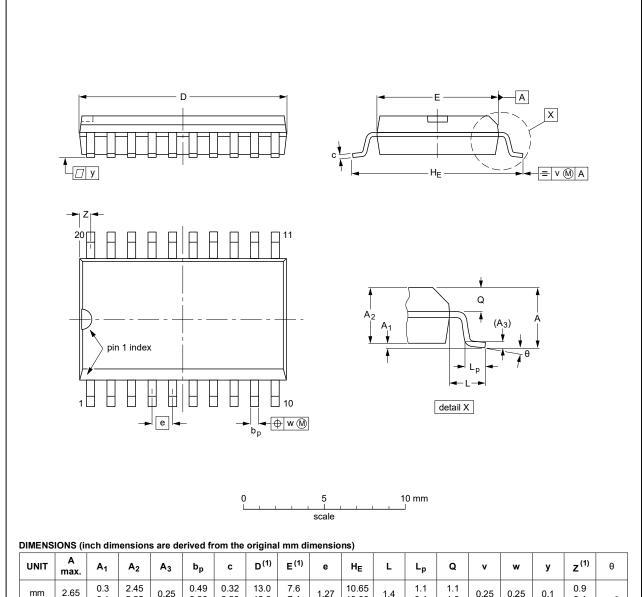
Table 9. Test data

Туре	Input Load			S1 position	
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub>	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>
74HC273	V <sub>CC</sub>	6 ns	15 pF, 50 pF	1 kΩ	open
74HCT273	3 V	6 ns	15 pF, 50 pF	1 kΩ	open

# 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°

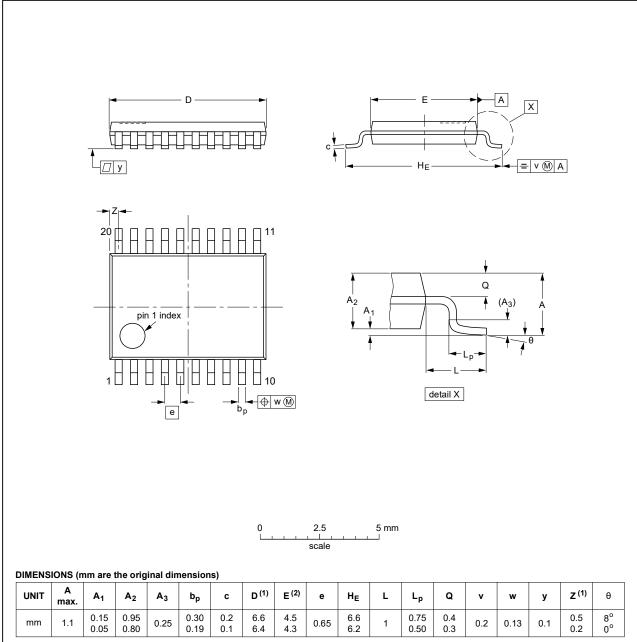
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	1330E 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



### 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)

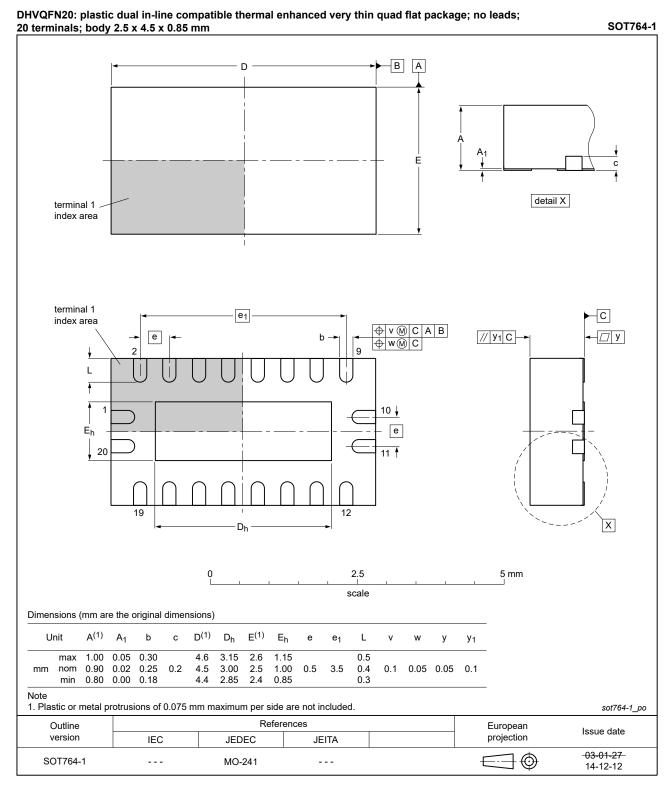


Fig. 13. Package outline SOT764-1 (DHVQFN20)

# 12. Abbreviations

### **Table 10. Abbreviations**

Acronym	Description
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

# 13. Revision history

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

Document ID	Release date	Data sheet status	Change notice	Supersedes			
74HC_HCT273 v.7	20210906	Product data sheet	-	74HC_HCT273 v.6			
Modifications:	<ul> <li>Types 74HC273D</li> </ul>	B and 74HCT273DB (	SOT339-1) removed.				
74HC_HCT273 v.6	20200903	Product data sheet	-	74HC_HCT273 v.5			
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 2 updated.</li> <li>Table 4: Derating values for P<sub>tot</sub> total power dissipation have been updated.</li> </ul>						
74HC_HCT273 v.5	20160226	Product data sheet	-	74HC_HCT273 v.4			
Modifications:	Type numbers 74l	HC273N and 74HCT2	73N (SOT146-1) remo	ved.			
74HC_HCT273 v.4	20130610	Product data sheet	-	74HC_HCT273 v.3			
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul>						
74HC_HCT273 v.3	20060124	Product data sheet	-	74HC_HCT273_CNV v.2			
74HC_HCT273_CNV v.2	19970827	Product specification	-	-			

# 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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