# 74HC273; 74HCT273

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

Rev. 5 — 26 February 2016 Product of

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 (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 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**

- Input levels:
  - ◆ For 74HC273: CMOS level
  - ◆ For 74HCT273: TTL level
- Common clock and master reset
- Eight positive edge-triggered D-type flip-flops
- Complies with JEDEC standard no. 7A
- 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

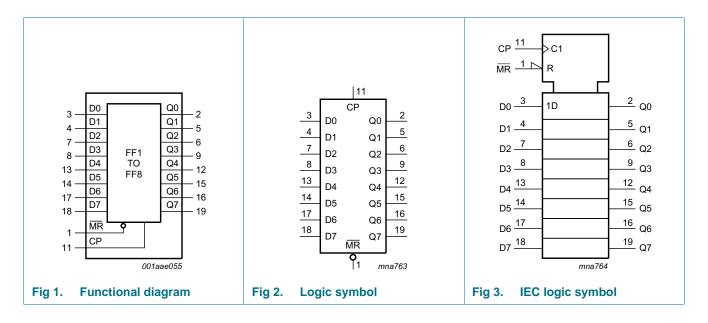
#### Ordering information 3.

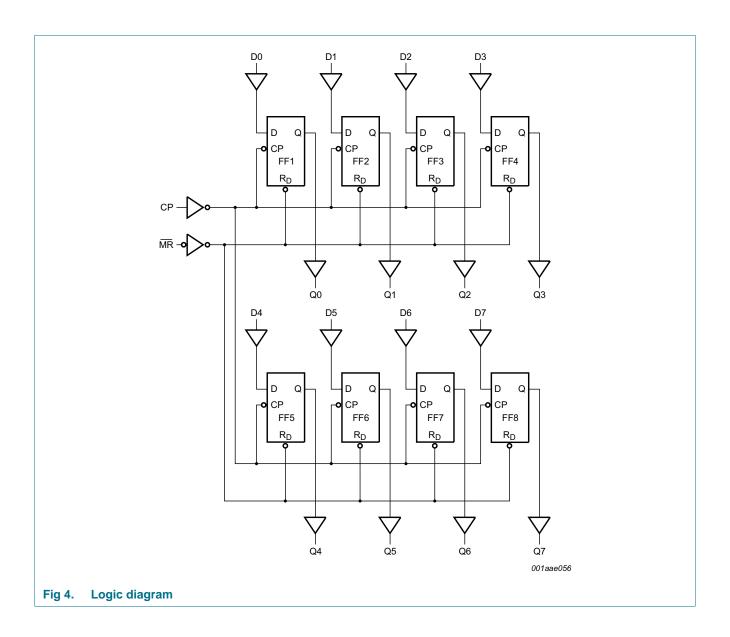
Table 1. **Ordering information** 

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				
74HC273DB	–40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads; body width	SOT339-1
74HCT273DB			5.3 mm	
74HC273PW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body	SOT360-1
74HCT273PW			width 4.4 mm	
74HC273BQ	–40 °C to +125 °C	DHVQFN20	plastic dual in-line compatible thermal enhanced very thin	SOT764-1
74HCT273BQ			quad flat package; no leads; 20 terminals; body $2.5 \times 4.5 \times 0.85$ mm	



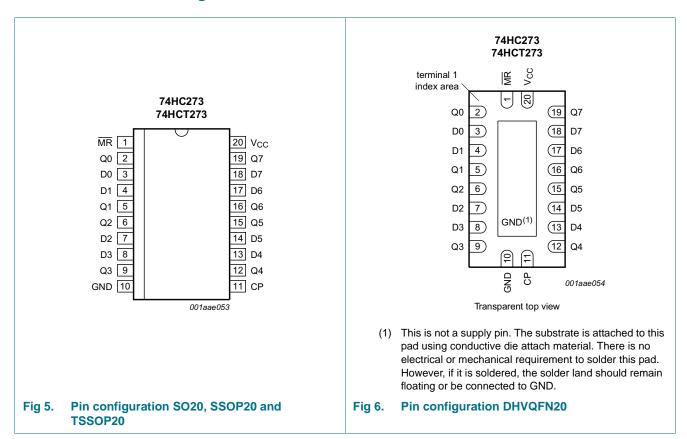
## 4. Functional diagram





### 5. Pinning information

### 5.1 Pinning



#### 5.2 Pin description

Table 2. Pin description

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

### 6. Functional description

Table 3. Function table[1]

Operating modes	Inputs	nputs							
	MR	СР	Dn	Qn					
reset (clear)	L	X	Х	L					
load "1"	Н	$\uparrow$	h	Н					
load "0"	Н	$\uparrow$	I	L					

<sup>[1]</sup> H = HIGH voltage level;

h = HIGH voltage level one set-up time prior to the LOW-to-HIGH clock transition;

L = LOW voltage level;

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

X = don't care;

### 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	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$			
		SO20, SSOP20, TSSOP20 and DHVQFN20 package	-	500	mW

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

For SSOP20 and TSSOP20 packages: above 60  $^{\circ}$ C the value of P<sub>tot</sub> derates linearly with 5.5 mW/K.

For DHVQFN20 packages:  $P_{tot}$  derates linearly with 4.5 mW/K above 60 °C.

 $<sup>\</sup>uparrow$  = LOW-to-HIGH clock transition.

<sup>[2]</sup> For SO20 package: above 70  $^{\circ}$ C the value of P<sub>tot</sub> derates linearly with 8 mW/K.

## 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>	V
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

### 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 t	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC27	3									
$V_{IH}$	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
$V_{IL}$	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	$V_I = V_{IH}$ or $V_{IL}$								
output voltage	$I_{O} = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V	
		$I_O = -20 \mu A; V_{CC} = 4.5 V$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_O = -20 \mu A; V_{CC} = 6.0 \text{ V}$	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
$V_{OL}$	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = 20 \mu A; V_{CC} = 2.0 V$	-	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
		$I_O = 20 \mu A; V_{CC} = 6.0 \text{ V}$	-	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
		$I_O = 5.2 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	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

 Table 6.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions		25 °C		–40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
Cı	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT27	73									
$V_{IH}$	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	8.0	-	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	$I_{O} = -20 \mu A$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -4.0 \text{ mA}$	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	$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 5.2 \text{ mA}; V_{CC} = 5.5 \text{ V}$	-	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
Δl <sub>CC</sub>	additional supply current	per input pin; $V_{I} = V_{CC} - 2.1 \text{ V};$ other inputs at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$								
		MR input	-	100	360	-	450	-	490	μА
		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 Figure 10

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC273	3									
t <sub>pd</sub>	propagation	CP to Qn; see Figure 7								
	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
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	15	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	13	26	-	31	-	38	ns

 Table 7.
 Dynamic characteristics ...continued

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

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>PHL</sub>	HIGH to LOW	MR to Qn; see Figure 8								
	propagation	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
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	15	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	14	26	-	31	-	38	ns
t <sub>t</sub>	transition time	Qn output; see Figure 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 Figure 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 Figure 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 Figure 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 Figure 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 Figure 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 Figure 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
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	66	-	-	-	-	-	MHz
		V <sub>CC</sub> = 6.0 V	35	122	-	28	-	24	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per package; $V_I = GND \text{ to } V_{CC}$	-	20	-	-	-	-	-	pF

 Table 7.
 Dynamic characteristics ...continued

GND (ground = 0 V);  $C_L = 50 \text{ pF}$  unless otherwise specified; for test circuit, see Figure 10

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	o +125 °C	Unit
				Тур	Max	Min	Max	Min	Max	
74HCT27	73						1			
t <sub>pd</sub>	propagation	CP to Qn; see Figure 7 [1]								
	delay	V <sub>CC</sub> = 4.5 V	-	16	30	-	38	-	45	ns
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	15	-	-	-	-	-	ns
t <sub>PHL</sub>	HIGH to LOW	MR to Qn; see Figure 8								
	propagation	V <sub>CC</sub> = 4.5 V	-	23	34	-	43	-	51	ns
	delay	$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	20	-	-	-	-	-	ns
t <sub>t</sub>	transition time	Qn output; see Figure 7 [2]								
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
t <sub>W</sub>	pulse width	CP input; see Figure 7								
		V <sub>CC</sub> = 4.5 V	16	9	-	20	-	24	-	ns
		MR input LOW;								
		see Figure 8								
		V <sub>CC</sub> = 4.5 V	16	8	-	20	-	24	-	ns
t <sub>rec</sub>	recovery time	MR to CP; see Figure 8								
		$V_{CC} = 4.5 \text{ V}$	10	-2	-	13	-	15	-	ns
t <sub>su</sub>	set-up time	Dn to CP; see Figure 9								
		$V_{CC} = 4.5 \text{ V}$	12	5	-	15	-	18	-	ns
t <sub>h</sub>	hold time	Dn to CP; see Figure 9								
		V <sub>CC</sub> = 4.5 V	3	-4	-	3	-	3	-	ns
f <sub>max</sub>	maximum	CP input; see Figure 7								
	frequency	V <sub>CC</sub> = 4.5 V	30	56	-	24	-	20	-	MHz
		$V_{CC} = 5.0 \text{ V}; C_L = 15 \text{ pF}$	-	36	-	-	-	-	-	MHz
C <sub>PD</sub>	power dissipation capacitance	per package; V <sub>I</sub> = GND to V <sub>CC</sub> – 1.5 V	-	23	-	-	-	-	-	pF

- [1]  $t_{pd}$  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;

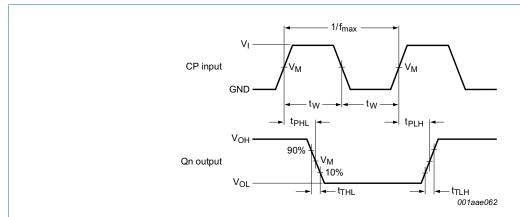
f<sub>o</sub> = output frequency in MHz;

 $\Sigma (C_L \times V_{CC}^2 \times f_o)$  = sum of outputs;

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

 $V_{CC}$  = supply voltage in V.

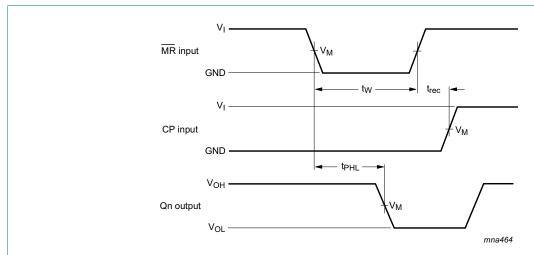
### 11. Waveforms



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 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<sub>OL</sub> and V<sub>OH</sub> 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)

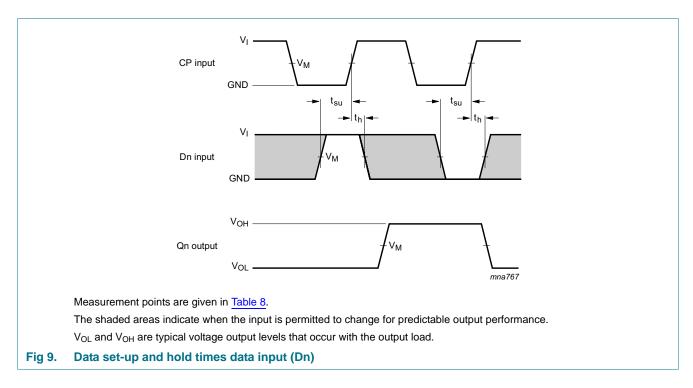
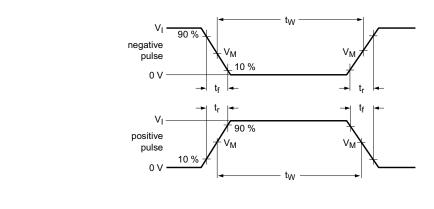
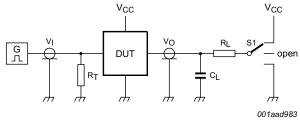


Table 8. Measurement points

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  $Z_o$  of the pulse generator.

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

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

S1 = Test selection switch

Fig 10. Test circuit for measuring switching times

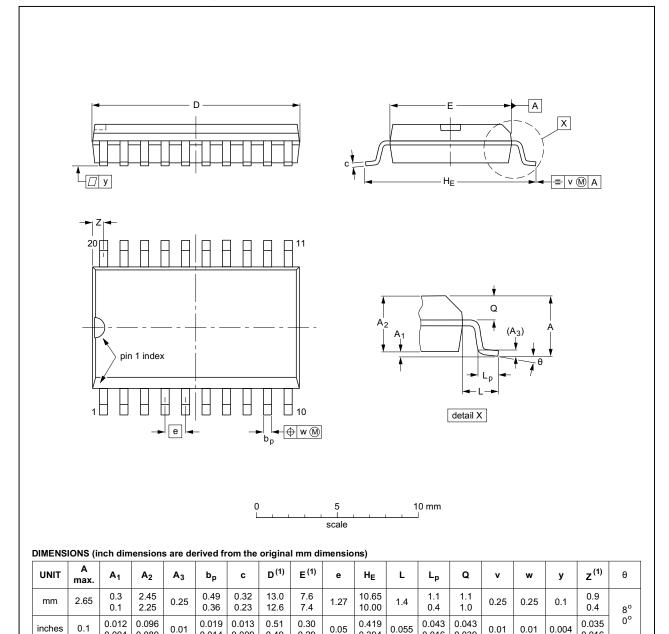
Table 9. Test data

Туре	Input		Load	S1 position	
	VI	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub>	$R_L$	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

### 12. Package outline

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

SOT163-1



#### Note

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

0.014

0.009

OUTLINE		REFER	RENCES	EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA	PROJECTION	155UE DATE	
SOT163-1	075E04	MS-013			<del>99-12-27</del> 03-02-19	

0.394

0.016

0.039

Fig 11. Package outline SOT163-1 (SO20)

0.004

0.089

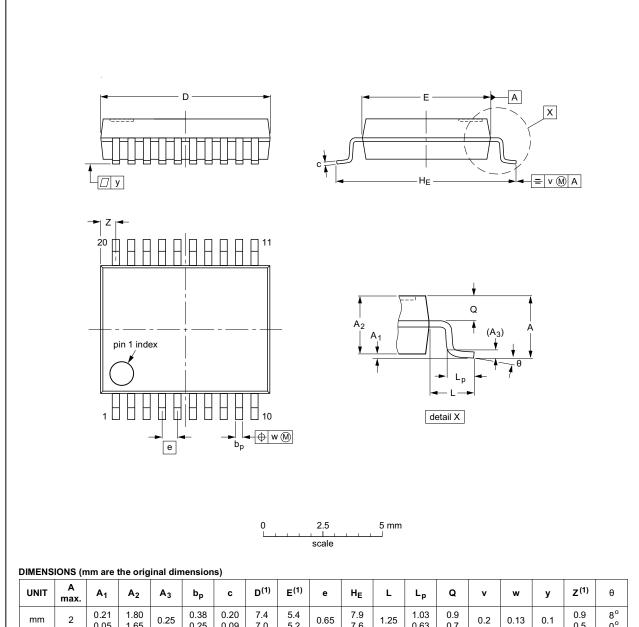
74HC\_HCT273

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SSOP20: plastic shrink small outline package; 20 leads; body width 5.3 mm

SOT339-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	<b>A</b> <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	HE	L	Lp	ø	v	¥	у	Z <sup>(1)</sup>	θ
mm	2	0.21 0.05	1.80 1.65	0.25	0.38 0.25	0.20 0.09	7.4 7.0	5.4 5.2	0.65	7.9 7.6	1.25	1.03 0.63	0.9 0.7	0.2	0.13	0.1	0.9 0.5	8° 0°

#### Note

1. Plastic or metal protrusions of 0.2 mm maximum per side are not included.

OUTLINE		EUROPEAN	ISSUE DATE					
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE		
SOT339-1		MO-150				<del>99-12-27</del> 03-02-19		

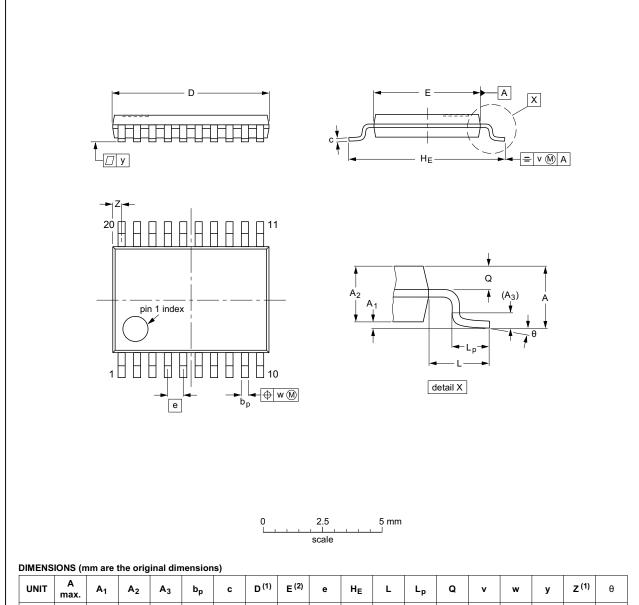
Fig 12. Package outline SOT339-1 (SSOP20)

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

SOT360-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	<b>A</b> <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(2)</sup>	е	HE	L	Lp	Q	v	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 13. Package outline SOT360-1 (TSSOP20)

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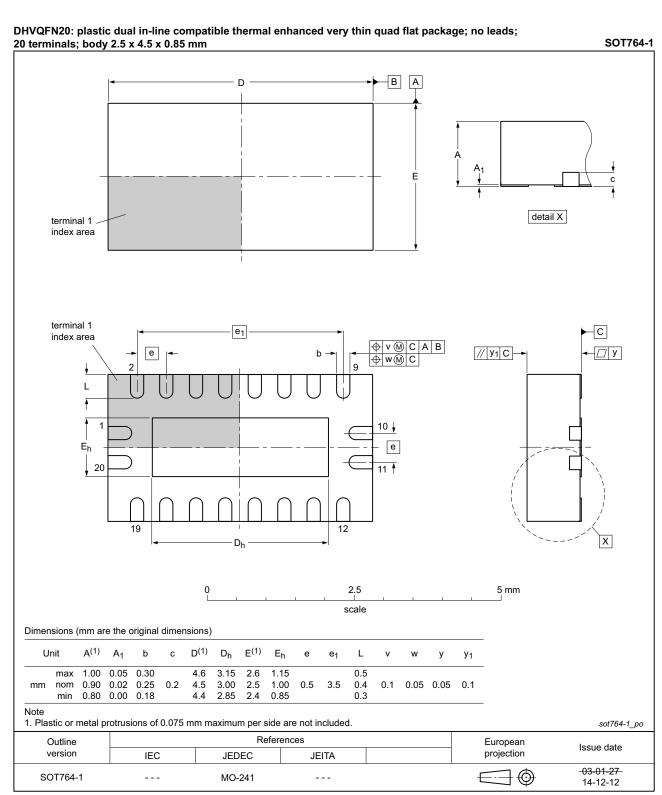


Fig 14. Package outline SOT764-1 (DHVQFN20)

### 13. Abbreviations

#### Table 10. Abbreviations

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

## 14. Revision history

#### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74HC_HCT273 v.5	20160226	Product data sheet	-	74HC_HCT273 v.4				
Modifications:	Type numbers 74HC273N and 74HCT273N (SOT146-1) removed.							
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> </ul>							
	<ul> <li>Legal texts h</li> </ul>	nave been adapted to the	new company name wh	nere appropriate.				
74HC_HCT273 v.3	20060124	Product data sheet	-	74HC_HCT273_CNV v.2				
74HC_HCT273_CNV v.2	19970827	Product specification	-	-				

### 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.

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions"
- [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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