# 74HC574; 74HCT574

Octal D-type flip-flop; positive edge-trigger; 3-state

Rev. 7 — 4 March 2016 Produ

**Product data sheet** 

#### 1. **General description**

The 74HC574; 74HCT574 is an 8-bit positive-edge triggered D-type flip-flop with 3-state outputs. The device features a clock (CP) and output enable (OE) inputs. The flip-flops will store the state of their individual D-inputs that meet the set-up and hold time requirements on the LOW-to-HIGH clock (CP) transition. A HIGH on OE causes the outputs to assume a high-impedance OFF-state. Operation of the OE input does not affect the state of the flip-flops. 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 74HC574: CMOS level
  - ◆ For 74HCT574: TTL level
- 3-state non-inverting outputs for bus oriented applications
- 8-bit positive, edge-triggered register
- Common 3-state output enable input
- Complies with JEDEC standard no. 7 A
- Multiple package options
- ESD protection:
  - HBM JESD22-A114F exceeds 2 000 V
  - MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

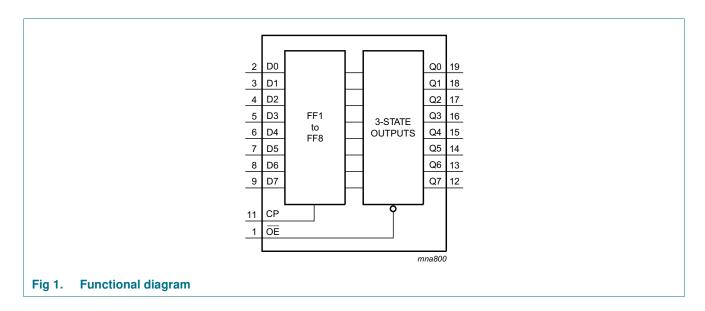
#### 3. Ordering information

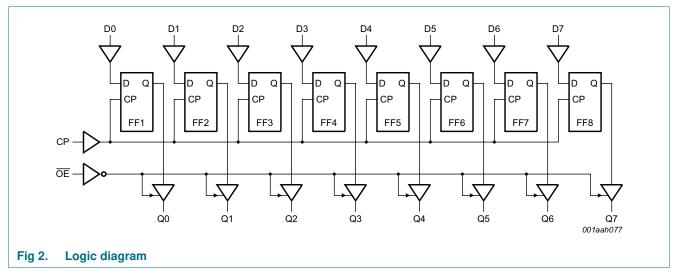
Table 1. **Ordering information** 

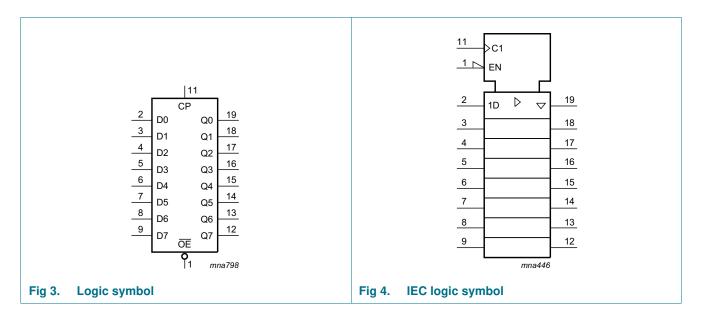
Type number	Package										
	Temperature range	erange Name Description									
74HC574D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads;	SOT163-1							
74HCT574D			body width 7.5 mm								
74HC574DB	-40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads;	SOT339-1							
74HCT574DB			body width 5.3 mm								
74HC574PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads;	SOT360-1							
74HCT574PW			body width 4.4 mm								



# 4. Functional diagram

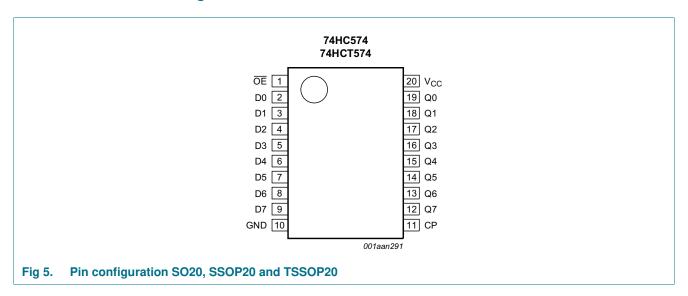






# 5. Pinning information

### 5.1 Pinning



## 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
ŌĒ	1	3-state output enable input (active LOW)
D[0:7]	2, 3, 4, 5, 6, 7, 8, 9	data input
GND	10	ground (0 V)
CP	11	clock input (LOW-to-HIGH, edge triggered)
Q[0:7]	19, 18, 17, 16, 15, 14, 13, 12	3-state flip-flop output
V <sub>CC</sub>	20	supply voltage

74HC\_HCT574

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# 6. Functional description

Table 3. Function table[1]

Operating mode	Input			Internal	Output
	OE	СР	Dn	flip-flop	Qn
Load and read register	L	<b>↑</b>	I	L	L
	L	<b>↑</b>	h	Н	Н
Load register and disable output	Н	<b>↑</b>	I	L	Z
	Н	<b>↑</b>	h	Н	Z

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

 $h = HIGH \ voltage \ level \ one \ setup \ time \ prior \ to \ the \ HIGH-to-LOW \ CP \ transition;$ 

L = LOW voltage level;

I = LOW voltage level one setup time prior to the HIGH-to-LOW CP transition;

Z = high-impedance OFF-state;

 $\uparrow$  = LOW-to-HIGH clock transition.

# 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	$V_1 < -0.5 \text{ V or } V_1 > V_{CC} + 0.5 \text{ V}$		-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$		-	±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	SO20, SSOP20 and TSSOP20 packages	[1]	-	500	mW

<sup>[1]</sup> For SO20: Ptot derates linearly with 8 mW/K above 70 °C.

For SSOP20 and TSSOP20 packages: Ptot derates linearly with 5.5 mW/K above 60 °C.

# 8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC574			7	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
V <sub>I</sub>	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
V <sub>O</sub>	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

 Table 5.
 Recommended operating conditions ...continued

Voltages are referenced to GND (ground = 0 V) ...continued

Symbol	Parameter	Conditions	-	74HC574		74HCT574			Unit
			Min	Тур	Max	Min	Тур	Max	
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	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC57	4									
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
		$V_{CC} = 6.0 \text{ V}$	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	8.0	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
		$I_O = -6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.98	4.32	-	3.84	-	3.7	-	٧
		$I_{O} = -7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	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	٧
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 6.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 6.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		$I_O = 7.8 \text{ mA}; V_{CC} = 6.0 \text{ V}$	-	0.16	0.26	-	0.33	-	0.4	V
l <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μА
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 6.0$ V; $V_O = V_{CC}$ or GND	-	-	±0.5	-	±5.0	-	±10.0	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
Cı	input capacitance		-	3.5	-	-	-	-	-	pF

 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 t	o +125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT5	74						-			
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	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
		$I_O = -6 \text{ mA}$	3.98	4.32	-	3.84	-	3.7	-	V
$V_{OL}$	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 20 μA	-	0	0.1	-	0.1	-	0.1	V
		$I_{O} = 6.0 \text{ mA}$	-	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	μΑ
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 5.5 \text{ V}$ ; $V_O = V_{CC}$ or GND	-	-	±0.5	-	±5.0	-	±10	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	8.0	-	80	-	160	μΑ
Δl <sub>CC</sub>	additional supply current	$\begin{aligned} &V_{I} = V_{CC} - 2.1 \text{ V;} \\ &\text{other inputs at } V_{CC} \text{ or GND;} \\ &V_{CC} = 4.5 \text{ V to } 5.5 \text{ V;} \\ &I_{O} = 0 \text{ A} \end{aligned}$								
		per input pin; Dn inputs	-	50	180	-	225	-	245	μΑ
		per input pin; OE input	-	125	450	-	563	-	613	μА
		per input pin; CP input	-	150	540	-	675	-	735	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 Figure 9.

Symbol	Parameter	Conditions		25 °C	,	-40 °C	to +85 °C	-40 °C 1	to +125 °C	Unit
			Mi	п Тур	Max	Min	Max	Min	Max	
74HC57	4			l e e e e e e e e e e e e e e e e e e e						
t <sub>pd</sub>	propagation	CP to Qn; see Figure 6	[1]							
•	delay	V <sub>CC</sub> = 2.0 V	-	47	150	-	190	-	225	ns
		V <sub>CC</sub> = 4.5 V	-	17	30	-	35	-	45	ns
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$	-	14	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	14	26	-	33	-	38	ns
t <sub>en</sub>	enable time	OE to Qn; see Figure 8	[2]							
		V <sub>CC</sub> = 2.0 V	-	44	140	-	175	-	210	ns
		V <sub>CC</sub> = 4.5 V	-	16	28	-	35	-	42	ns
		V <sub>CC</sub> = 6.0 V	-	13	24	-	30	-	36	ns
t <sub>dis</sub>	disable time	OE to Qn; see Figure 8	[3]							
		V <sub>CC</sub> = 2.0 V	-	39	125	-	155	-	190	ns
		V <sub>CC</sub> = 4.5 V	-	14	25	-	31	-	38	ns
		V <sub>CC</sub> = 6.0 V	-	11	21	-	26	-	32	ns
t <sub>t</sub>	transition	Qn; see Figure 6	[4]							
	time	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
t <sub>W</sub>	pulse width	CP 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	10	5 5	-	20	-	24	-	ns
		V <sub>CC</sub> = 6.0 V	14	4 4	-	17	-	20	-	ns
t <sub>su</sub>	set-up time	Dn to CP; see Figure 7								
		V <sub>CC</sub> = 2.0 V	60	6	-	75	-	90	-	ns
		V <sub>CC</sub> = 4.5 V	12	2 2	-	15	-	18	-	ns
		V <sub>CC</sub> = 6.0 V	1(	) 2	-	13	-	15	-	ns
t <sub>h</sub>	hold time	Dn to CP; see Figure 7								
		V <sub>CC</sub> = 2.0 V	5	0	-	5	-	5	-	ns
		V <sub>CC</sub> = 4.5 V	5	0	-	5	-	5	-	ns
		V <sub>CC</sub> = 6.0 V	5	0	-	5	-	5	-	ns
f <sub>max</sub>	maximum	CP; see Figure 6								
	frequency	V <sub>CC</sub> = 2.0 V	6.	0 37	-	4.8	-	4.0	-	MHz
		V <sub>CC</sub> = 4.5 V	30	) 112	-	24	-	20	-	MHz
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$	-	123	-	-	-	-	-	MHz
		V <sub>CC</sub> = 6.0 V	3	5 133	-	28	-	24	-	MHz

 Table 7.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V);  $C_L = 50 \text{ pF}$  unless otherwise specified; for test circuit see Figure 9.

Symbol	Parameter	Conditions			25 °C		-40 °C	to +85 °C	–40 °C t	o +125 °C	Unit
				Min	Тур	Max	Min	Max	Min	Max	
$C_{PD}$	power dissipation capacitance	$C_L = 50 \text{ pF}; f = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$		-	22	-	-	-	-	-	pF
74HCT5	74										
t <sub>pd</sub>	propagation	CP to Qn; see Figure 6	[1]								
	delay	V <sub>CC</sub> = 4.5 V		-	18	33	-	41	-	50	ns
		V <sub>CC</sub> = 5 V; C <sub>L</sub> = 15 pF		-	15	-	-	-	-	-	ns
t <sub>en</sub>	enable time	OE to Qn; see Figure 8	[2]								
		V <sub>CC</sub> = 4.5 V		-	19	33	-	41	-	50	ns
t <sub>dis</sub>	disable time	OE to Qn; see Figure 8	[3]								
		V <sub>CC</sub> = 4.5 V		-	16	28	-	35	-	42	ns
t <sub>t</sub>	transition	Qn; see Figure 6	[4]								
	time	V <sub>CC</sub> = 4.5 V		-	5	12	-	15	-	18	ns
t <sub>W</sub>	pulse width	CP HIGH or LOW; see Figure 7									
		V <sub>CC</sub> = 4.5 V		16	7	-	20	-	24	-	ns
t <sub>su</sub>	set-up time	Dn to CP; see Figure 7									
		V <sub>CC</sub> = 4.5 V		12	3	-	15	-	18	-	ns
t <sub>h</sub>	hold time	Dn to CP; see Figure 7									
		V <sub>CC</sub> = 4.5 V		5	-1	-	5	-	5	-	ns
f <sub>max</sub>	maximum	CP; see Figure 6									
	frequency	V <sub>CC</sub> = 4.5 V		30	69	-	24	-	20	-	MHz
		$V_{CC} = 5 \text{ V}; C_L = 15 \text{ pF}$		-	76	-	-	-	-	-	MHz
C <sub>PD</sub>	power dissipation capacitance	$C_L$ = 50 pF; f = 1 MHz; V <sub>I</sub> = GND to V <sub>CC</sub> - 1.5 V	<u>[5]</u>	-	25	-	-	-	-	-	pF

- [1]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .
- [2]  $t_{en}$  is the same as  $t_{PZH}$  and  $t_{PZL}$ .
- [3]  $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .
- [4]  $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ .
- [5]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

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

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

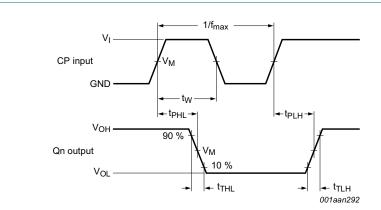
 $C_L$  = output load capacitance in pF;

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

N = number of inputs switching;

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

## 11. Waveforms



Measurement points are given in Table 8.

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

Fig 6. Propagation delay input (CP) to output (Qn), output transition time, clock input (CP) pulse width and the maximum frequency (CP)

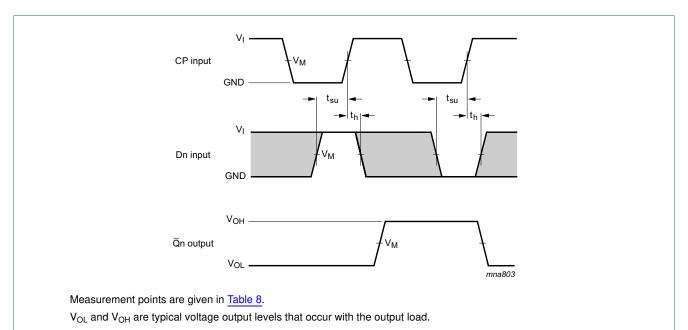


Fig 7. The data input (D) to clock input (CP) set-up times and clock input (CP) to data input (D) hold times

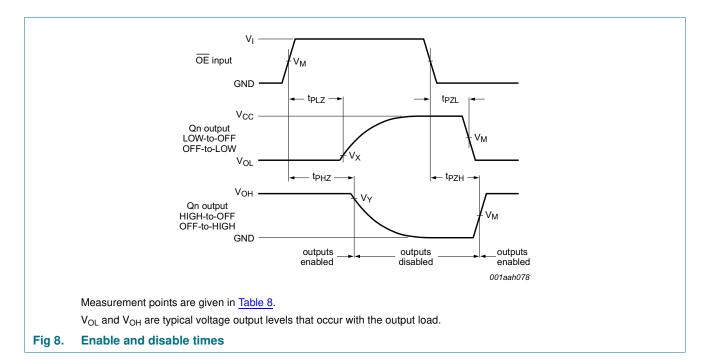
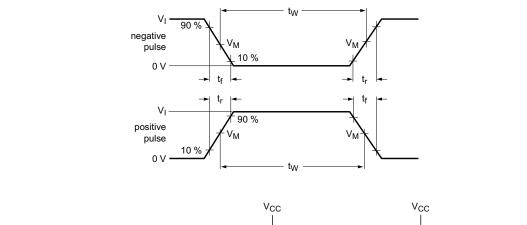
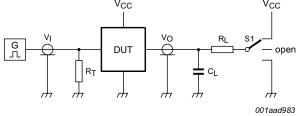


Table 8. Measurement points

Туре	Input	Output		
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>
74HC574	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>
74HCT574	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>

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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.

 $R_L$  = Load resistance.

S1 = Test selection switch.

Fig 9. Test circuit for measuring switching times

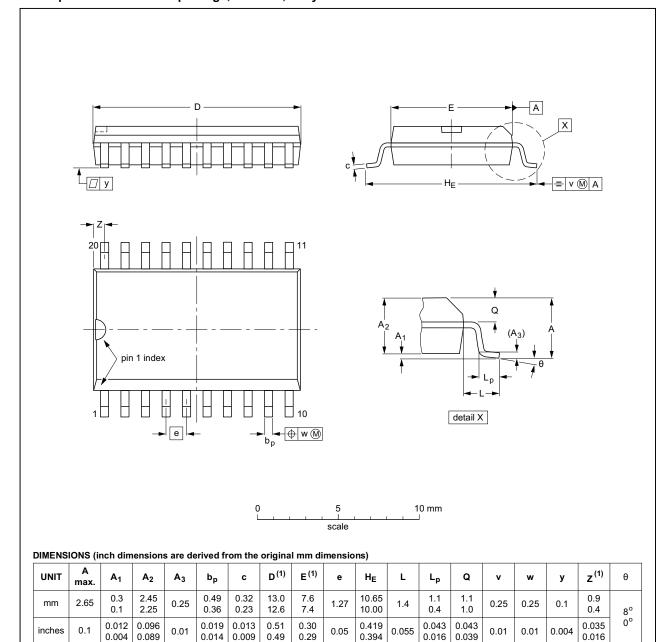
Table 9. Test data

Туре	Input		Load		S1 position			
	VI	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>	
74HC574	V <sub>CC</sub>	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	
74HCT574	3 V	6 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	

# 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.

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	

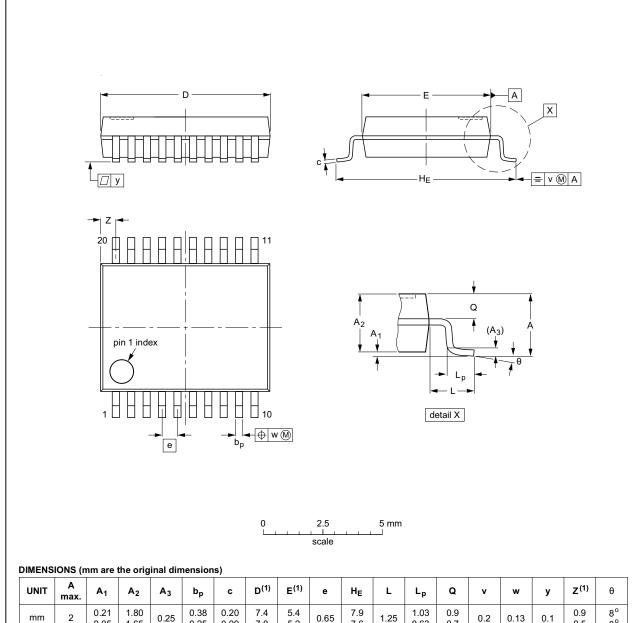
Fig 10. Package outline SOT163-1 (SO20)

74HC HCT574

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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.

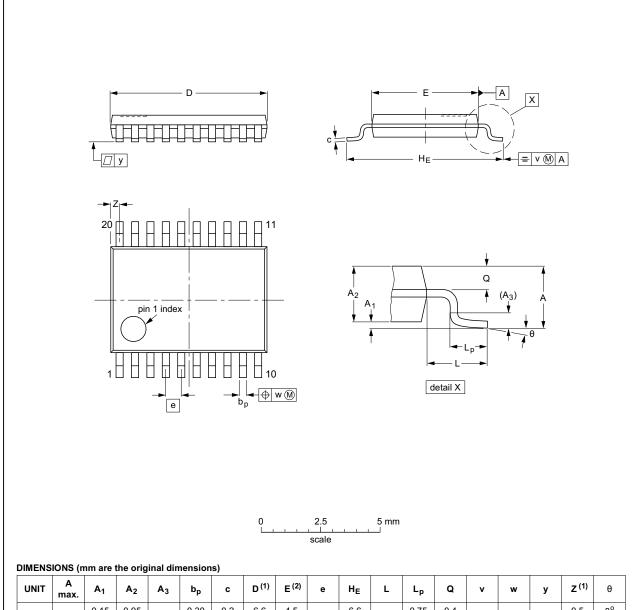
OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT339-1		MO-150				<del>99-12-27</del> 03-02-19	

Fig 11. 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



UN	IT A max.	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	bp	С	D (1)	E (2)	е	HE	L	Lp	Q	v	w	у	Z (1)	θ
mr	m 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.

		REFERENCES							
IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE				
	MO-153				<del>99-12-27</del> 03-02-19				
_	ILO								

Fig 12. Package outline SOT360-1 (TSSOP20)

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# 13. 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

# 14. Revision history

#### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT574 v.7	20160304	Product data sheet	-	74HC_HCT574 v.6
Modifications:	Type numb	ers 74HC574N and 74HC	T574N (SOT146-1) r	emoved.
74HC_HCT574 v.6	20150126	Product data sheet	-	74HC_HCT574 v.5
Modifications:	• <u>Table 7</u> : Po	wer dissipation capacitand	e condition for 74HC	T574 is corrected.
74HC_HCT574 v.5	20120425	Product data sheet	-	74HC_HCT574 v.4
Modifications:	<ul> <li>V<sub>X</sub> and V<sub>Y</sub></li> </ul>	measurement points adde	d to Table 8.	
74HC_HCT574 v.4	20111219	Product data sheet	-	74HC_HCT574 v.3
Modifications:	Legal page	s updated.		<u>'</u>
74HC_HCT574 v.3	20101215	Product data sheet	-	74HC_HCT574_CNV v.2
74HC_HCT574_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.nxp.com.

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74HC HCT574

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# 74HC574; 74HCT574

#### Octal D-type flip-flop; positive edge-trigger; 3-state

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Octal D-type flip-flop; positive edge-trigger; 3-state

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