# 74AHC374; 74AHCT374

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

Rev. 4 — 4 September 2023

Product data sheet

## 1. General description

The 74AHC374; 74AHCT374 is an octal positive-edge triggered D-type flip-flop with 3-state outputs. The device features a clock (CP) and output enable  $(\overline{OE})$  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  $\overline{OE}$  causes the outputs to assume a high-impedance OFF-state. Operation of the  $\overline{OE}$  input does not affect the state of the flip-flops. Inputs are overvoltage tolerant. The 74AHCT374 device features TTL compatible inputs that are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

### 2. Features and benefits

- · Balanced propagation delays
- All inputs have Schmitt-trigger actions
- Wide supply voltage range from 2.0 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- · CMOS low power dissipation
- Common 3-state output enable input
- Input levels:
  - For 74AHC374: CMOS level
  - For 74AHCT374: TTL level
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

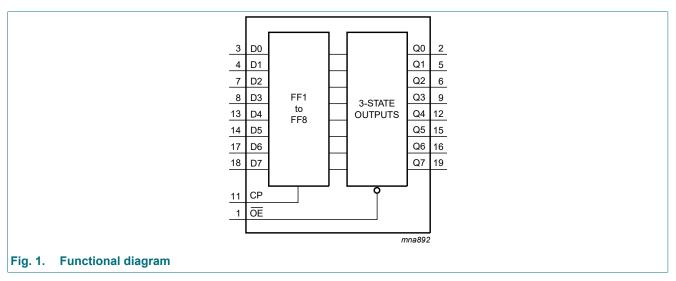
# 3. Ordering information

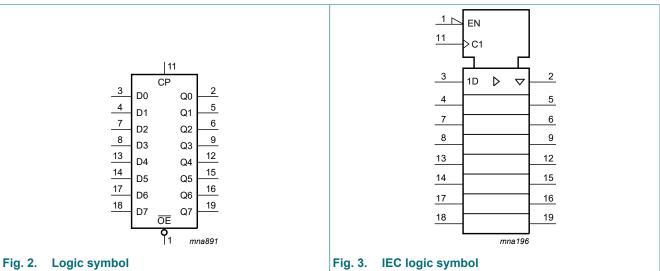
#### **Table 1. Ordering information**

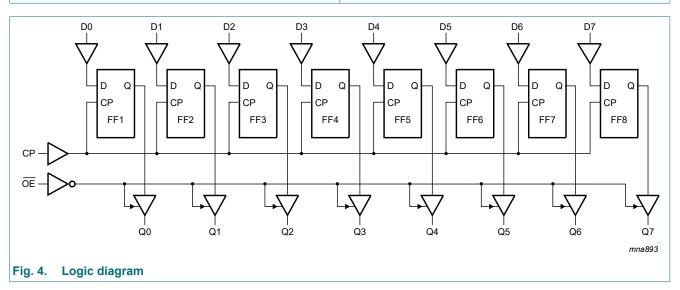
Type number	Package										
	Temperature range	perature range Name Description V									
74AHC374D 74AHCT374D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1							
74AHC374PW 74AHCT374PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1							



# 4. Functional diagram

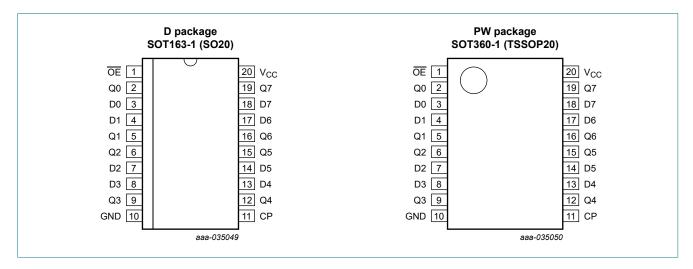






## 5. Pinning information

## 5.1. Pinning



## 5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
ŌĒ	1	3-state output enable input (active LOW)
Q0, Q1, Q2, Q3, Q4, Q5, Q6, Q7	2, 5, 6, 9, 12, 15, 16, 19	3-state 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

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

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

 $<sup>\</sup>uparrow$  = LOW-to-HIGH CP transition; Z = high-impedance OFF-state.

Operating mode	Control		Input	Internal	Output
	OE	СР	Dn	flip-flop	Q0 to Q7
Load and read register	L	<b>↑</b>	I	L	L
	L	1	h	Н	Н
Load register and disable outputs	Н	<b>↑</b>	I	L	Z
	Н	<b>↑</b>	h	Н	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	+7.0	V
VI	input voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_{I} < -0.5 \text{ V}$ [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	+20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-25	+25	mA
I <sub>CC</sub>	supply current		-	+75	mA
I <sub>GND</sub>	ground current		-75	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ [2]	-	500	mW

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

# 8. Recommended operating conditions

#### **Table 5. Operating conditions**

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
74AHC3	74					
V <sub>CC</sub>	supply voltage		2.0	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 3.0 V to 3.6 V	-	-	100	ns/V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	20	ns/V
74AHCT	374	,	'			
V <sub>CC</sub>	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	20	ns/V

<sup>[2]</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.

## 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	1
74AHC3	74									
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V <sub>CC</sub> = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O}$ = -4.0 mA; $V_{CC}$ = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		$I_{O}$ = -8.0 mA; $V_{CC}$ = 4.5 V	3.94	-	-	3.80	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_O = 50 \mu A; V_{CC} = 2.0 V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 50 \mu A; V_{CC} = 3.0 V$	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.36	-	0.44	-	0.55	V
		$I_{O}$ = 8.0 mA; $V_{CC}$ = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±0.25	-	±2.5	-	±10.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	4.0	-	40	-	80	μΑ
C <sub>I</sub>	input capacitance	V <sub>I</sub> = V <sub>CC</sub> or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	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	
74AHCT	374							<b>'</b>	<u> </u>	1
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA	3.94	-	-	3.80	-	3.70	-	V
$V_{OL}$	LOW-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
l <sub>l</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μΑ
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5$ V	-	-	±0.25	-	±2.5	-	±10.0	μΑ
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	4.0	-	40	-	80	μΑ
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}$ ; other pins at $V_{CC}$ or GND; $I_O = 0 \text{ A}$ ; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
Cı	input capacitance	V <sub>I</sub> = V <sub>CC</sub> or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	-	pF

# 10. Dynamic characteristics

## **Table 7. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 8.

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
<b>74AHC3</b>	74									
t <sub>pd</sub>	propagation delay	CP to Qn; see Fig. 5 and [2] Fig. 7								
		V <sub>CC</sub> = 3.0 V to 3.6 V								
		C <sub>L</sub> = 15 pF	-	6.4	12.7	1.0	15.0	1.0	16.0	ns
		C <sub>L</sub> = 50 pF	-	8.4	16.2	1.0	18.5	1.0	20.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	-	4.4	8.1	1.0	9.5	1.0	10.0	ns
		C <sub>L</sub> = 50 pF	-	5.7	10.1	1.0	11.5	1.0	12.5	ns

Symbol	Parameter	Conditions		25 °C		-40 °C t	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
t <sub>en</sub>	enable time	OE to Qn; see Fig. 6	1							
		V <sub>CC</sub> = 3.0 V to 3.6 V								
		C <sub>L</sub> = 15 pF	_	5.5	11.0	1.0	13.0	1.0	14.0	ns
		C <sub>L</sub> = 50 pF	_	7.3	14.5	1.0	16.5	1.0	18.0	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	_	3.9	7.6	1.0	9.0	1.0	9.5	ns
		C <sub>1</sub> = 50 pF	_	5.2	9.6	1.0	11.0	1.0	12.0	ns
t <sub>dis</sub>	disable time	OE to Qn; see Fig. 6 [4	1							
4.0		V <sub>CC</sub> = 3.0 V to 3.6 V	-							
		C <sub>L</sub> = 15 pF	_	5.6	10.5	1.0	12.5	1.0	13.0	ns
		C <sub>L</sub> = 50 pF	_	9.4	14.0	1.0	16.0	1.0	17.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>1</sub> = 15 pF	-	4.2	6.8	1.0	8.0	1.0	8.5	ns
		C <sub>L</sub> = 50 pF	_	6.4	8.8	1.0	10.0	1.0	11.0	ns
f <sub>max</sub>	maximum	see Fig. 5						-		+
max	frequency	V <sub>CC</sub> = 3.0 V to 3.6 V								1
		C <sub>L</sub> = 15 pF	80	130	_	70	_	70	_	MHz
		C <sub>L</sub> = 50 pF	55	85	-	50	_	50	_	MHz
		V <sub>CC</sub> = 4.5 V to 5.5 V								+
		C <sub>L</sub> = 15 pF	130	185	-	110	_	110	_	MHz
		C <sub>L</sub> = 50 pF	85	120	_	75	_	75	_	MHz
t <sub>W</sub>	pulse width	CP HIGH or LOW; see Fig. 5				-				+
••		V <sub>CC</sub> = 3.0 V to 3.6 V	5.0	-	-	5.5	_	5.5	_	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	5.0	-	-	5.0	_	5.0	-	ns
t <sub>su</sub>	set-up time	Dn to CP; see Fig. 7								
Su	'	V <sub>CC</sub> = 3.0 V to 3.6 V	4.5	-	-	4.0	_	4.0	_	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	3.0	_	-	3.0	_	3.0	_	ns
t <sub>h</sub>	hold time	Dn to CP; see Fig. 7								
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	_	-	2.0	_	2.0	_	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	_	-	2.0	_	2.0	_	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [5		10	-	-	-	-	-	pF
74AHCT	374; V <sub>CC</sub> = 4.	│ 5 V to 5.5 V								
t <sub>pd</sub>	propagation delay	CP to Qn; see Fig. 5 and [2 Fig. 7	]							
		C <sub>L</sub> = 15 pF	_	4.3	9.4	1.0	10.5	1.0	12.0	ns
		C <sub>1</sub> = 50 pF	_	5.6	10.4	1.0	11.5	1.0	13.0	ns
t <sub>en</sub>	enable time	OE to Qn; see Fig. 6	1					-		+
CII		C <sub>L</sub> = 15 pF	_	3.5	10.2	1.0	11.5	1.0	13.0	ns
		C <sub>L</sub> = 50 pF	_	4.8	11.2	1.0	12.5	1.0	14.0	ns
t <sub>dis</sub>	disable time	OE to Qn; see Fig. 6 [4	1							+ -
uio		C <sub>L</sub> = 15 pF	-	3.6	10.2	1.0	11.0	1.0	13.0	ns
		C <sub>L</sub> = 50 pF	_	5.7	11.2	1.0	12.0	1.0	14.0	ns

**Product data sheet** 

Symbol	Parameter	Conditions		25 °C			-40 °C to +85 °C		-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	Min	Max	
f <sub>max</sub>	maximum	see Fig. 5								
	frequency	C <sub>L</sub> = 15 pF	90	140	-	80	-	80	-	MHz
		C <sub>L</sub> = 50 pF	85	130	-	75	-	75	-	MHz
t <sub>W</sub>	pulse width	CP HIGH or LOW;see Fig. 5	6.5	-	-	6.5	-	6.5	-	ns
t <sub>su</sub>	set-up time	Dn to CP; see Fig. 7	2.5	-	-	2.5	-	2.5	-	ns
t <sub>h</sub>	hold time	Dn to CP; see Fig. 7	2.5	-	-	2.5	-	2.5	-	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz}; V_I = \text{GND to } V_{CC}$ [5]	-	12	-	-	-	-	-	pF

- [1] Typical values are measured at nominal supply voltage ( $V_{CC}$  = 3.3 V and  $V_{CC}$  = 5.0 V).
- [2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .
- [3]  $t_{en}$  is the same as  $t_{PZH}$  and  $t_{PZL}$ .
- [4]  $t_{dis}$  is the same as  $t_{PHZ}$  and  $t_{PLZ}$ .
- [5]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

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

fo = output frequency in MHz;

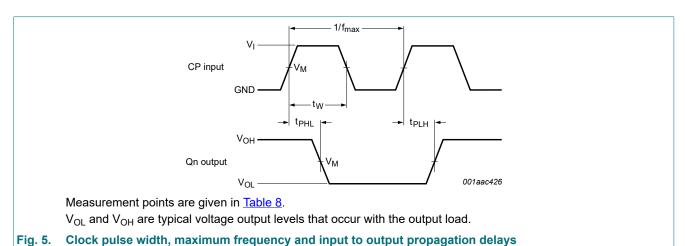
C<sub>I</sub> = output load capacitance in pF;

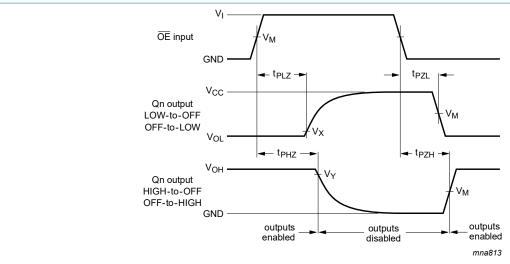
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

### 10.1. Waveforms and test circuit

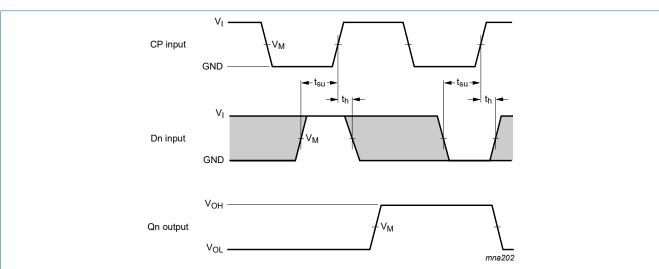




Measurement points are given in Table 8.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

Fig. 6. Enable and disable times



Measurement points are given in Table 8.

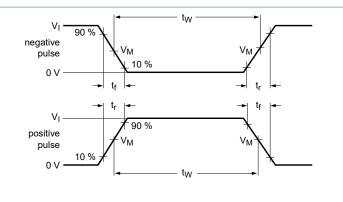
The shaded areas indicate when the input is permitted to change for predictable output performance.

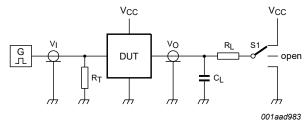
 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical voltage output levels that occur with the output load.

Fig. 7. Data set-up and hold times

**Table 8. Measurement points** 

Туре	Input	Output						
	$V_{M}$	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>				
74AHC374	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V				
74AHCT374	1.5 V	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 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<sub>L</sub> = load capacitance including jig and probe capacitance;

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

S1 = test selection switch.

### Fig. 8. Test circuit for measuring switching times

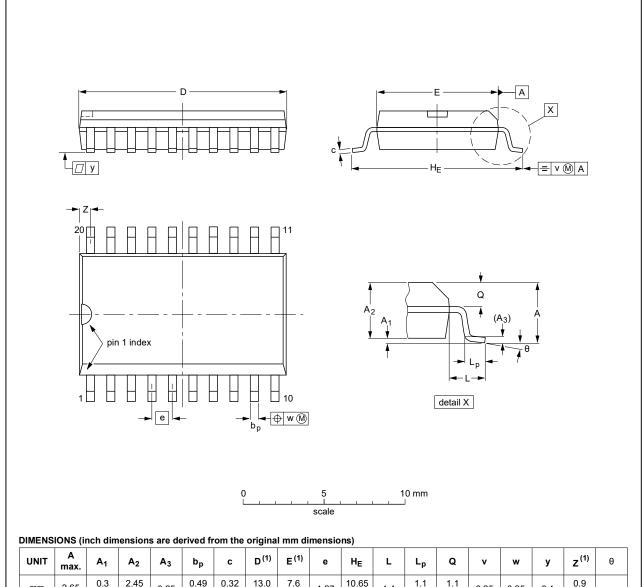
Table 9. Test data

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>P</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>	
74AHC374	V <sub>CC</sub>	≤ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>	
74AHCT374	3.0 V	≤ 3.0 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°

#### Note

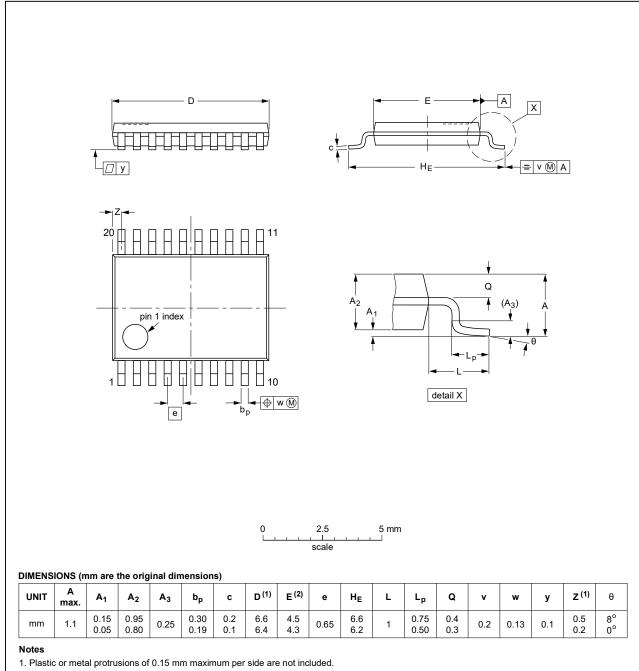
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

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. 9. Package outline SOT163-1 (SO20)

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

SOT360-1



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. 10. Package outline SOT360-1 (TSSOP20)

## 12. Abbreviations

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

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	Human Body Model
TTL	Transistor-Transistor Logic

# 13. Revision history

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

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AHC_AHCT374 v.4	20230904	Product data sheet	-	74AHC_AHCT374 v. 3
Modifications:	guidelines of Legal texts  Section 1 are Section 2: E	of this data sheet has been of Nexperia.  have been adapted to the ind Section 2 updated.  SD specification updated a rating values for Ptot total p	new company nar	ne where appropriate.
74AHC_AHCT374 v.3	20080612	Product data sheet	-	74AHC_AHCT374 v.2
Modifications:	guidelines o Legal texts	of this data sheet has beer of NXP Semiconductors. have been adapted to the conditions for input leakag	new company nar	• • •
74AHC_AHCT374 v.2	19990928	Product specification	-	74AHC_AHCT374 v.1
74AHC_AHCT374 v.1	19981211	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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#### Octal D-type flip-flop; positive edge-trigger; 3-state

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