# 74AHC573; 74AHCT573

Octal D-type transparent latch; 3-state

Rev. 9.1 — 11 October 2023

**Product data sheet** 

## 1. General description

The 74AHC573; 74AHCT573 is an 8-bit D-type transparent latch with 3-state outputs. The device features latch enable (LE) and output enable ( $\overline{\text{OE}}$ ) 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  $\overline{\text{OE}}$  causes the outputs to assume a high-impedance OFF-state. Operation of the  $\overline{\text{OE}}$  input does not affect the state of the latches. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

## 2. Features and benefits

- Wide supply voltage range from 2.0 V to 5.5 V
- Balanced propagation delays
- All inputs have Schmitt-trigger action
- Overvoltage tolerant inputs to 5.5 V
- High noise immunity
- CMOS low power dissipation
- · Common 3-state output enable input
- Functionally identical to the 74AHC373; 74AHCT373
- Input levels:
  - For 74AHC573: CMOS input level
  - For 74AHCT573: TTL input 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
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

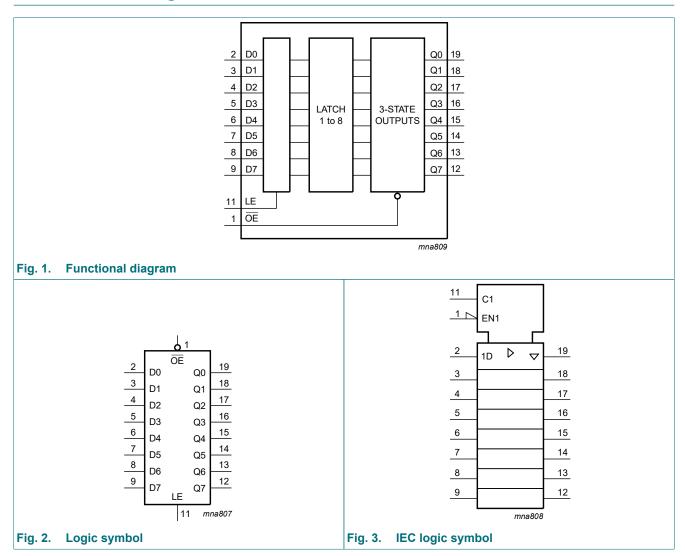


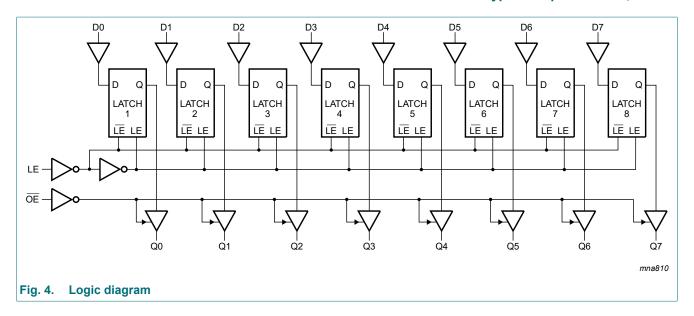
## 3. Ordering information

**Table 1. Ordering information** 

Type number	Package			
	Temperature range	Name	Description	Version
74AHC573D 74AHCT573D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1
74AHC573PW 74AHCT573PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1
74AHC573BQ 74AHCT573BQ	-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

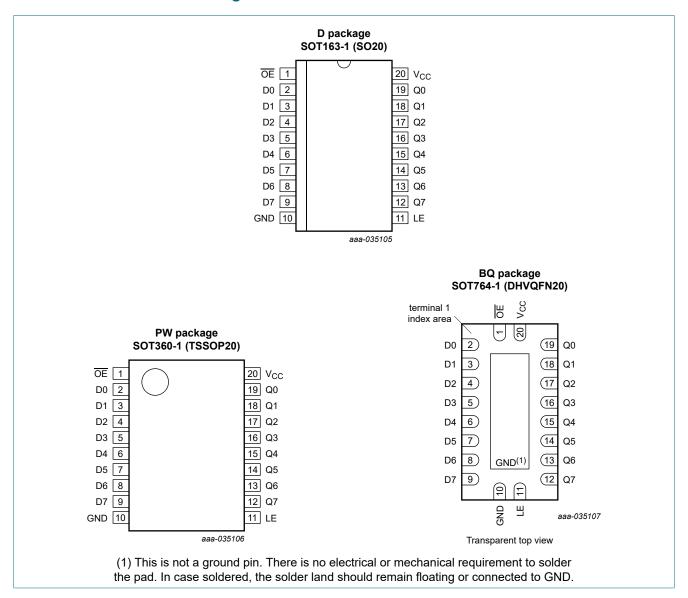
## 4. Functional diagram





## 5. Pinning information

## 5.1. Pinning



## 5.2. Pin description

Table 2. Pin description

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

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## 6. Functional description

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

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

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

Z = high-impedance OFF-state.

Operating mode	Input			Internal latch	Output
	OE	LE	Dn		Qn
Enable and read register (transparent mode)	L	Н	L	L	L
			Н	Н	Н
Latch and read register	L	L	I	L	L
			h	Н	Н
Latch register and disable outputs	Н	L	1	L	Z
			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
$V_{CC}$	supply voltage			-0.5	+7.0	V
VI	input voltage			-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < -0.5 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 <sub>amb</sub> = -40 °C to +125 °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. Recommended operating conditions

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

Symbol	Parameter	Conditions	7	'4AHC57	3	74	4AHCT57	73	Unit
			Min	Тур	Max	Min	Тур	Max	
$V_{CC}$	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	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
Δt/ΔV	input transition rise and	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V
	fall rate	V <sub>CC</sub> = 5.0 V ± 0.5 V	-	-	20	-	-	20	ns/V

<sup>[2]</sup> For SOT163-1 (SO20) package: Ptot 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: Ptot derates linearly with 12.9 mW/K above 111 °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 +85 °C	-40 °C to +125 °C			Unit
			Min	Тур	Max	Min	Max	Min	Тур	Max	
74AHC5	73			'					'		
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 <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>									
	output voltage	$I_{O}$ = -50 $\mu$ A; $V_{CC}$ = 2.0 $V$	1.9	2.0	-	1.9	-	1.9	-	-	V
		$I_{O}$ = -50 $\mu$ A; $V_{CC}$ = 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
		$I_O = -4.0 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.58	-	-	2.48	-	2.40	-	-	V
		$I_O = -8.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.94	-	-	3.80	-	3.70	-	-	V
O_	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>									
		$I_O = 50 \mu A; V_{CC} = 2.0 V$	-	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 <sub>O</sub> = 8.0 mA; V <sub>CC</sub> = 4.5 V	-	-	0.36	-	0.44	-	-	0.55	V
I <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	-	±10.0	μA
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 0$ V to 5.5 V	-	-	0.1	-	1.0	-	-	2.0	μA
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	-	-	-	-	-	10	pF

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °	Unit		
			Min	Тур	Max	Min	Max	Min	Тур	Max	
74AHCT	573										
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 <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 V$									
	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 <sub>OL</sub>	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
I <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.25	-	±2.5	-	-	±10.0	μA
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
Icc	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	4.0	-	40	-	-	80	μΑ
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A};$ other pins at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V}$ to $5.5 \text{ V}$	-	-	1.35	-	1.5	-	-	1.5	mA
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	-	-	-	-	-	10	pF

## 10. Dynamic characteristics

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

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 9.

Symbol	Parameter	Conditions		25 °C		-40 °C	to +85 °C	-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC5	73						ı	I	l	
t <sub>pd</sub>	propagation	Dn to Qn; see Fig. 5	]							Т
	delay	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	-	7.8	14.5	1.0	16.5	1.0	18.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	-	3.9	6.8	1.0	8.0	1.0	8.5	ns
		C <sub>L</sub> = 50 pF	-	5.5	8.8	1.0	10.0	1.0	11.0	ns
		LE to Qn; see Fig. 6 [2	]							
		V <sub>CC</sub> = 3.0 V to 3.6 V								
		C <sub>L</sub> = 15 pF	-	5.8	11.9	1.0	14.0	1.0	15.0	ns
		C <sub>L</sub> = 50 pF	-	8.3	15.4	1.0	17.5	1.0	19.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	-	4.2	7.7	1.0	9.0	1.0	10.0	ns
		C <sub>L</sub> = 50 pF	-	5.9	9.7	1.0	11.0	1.0	12.5	ns
t <sub>en</sub>	enable time	OE to Qn; see Fig. 7 [3	]							
		V <sub>CC</sub> = 3.0 V to 3.6 V								
		C <sub>L</sub> = 15 pF	-	5.8	11.5	1.0	13.5	1.0	14.5	ns
		C <sub>L</sub> = 50 pF	-	8.3	15.0	1.0	17.0	1.0	19.0	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	-	4.4	7.7	1.0	9.0	1.0	10.0	ns
		C <sub>L</sub> = 50 pF	-	6.3	9.7	1.0	11.0	1.0	12.5	ns
t <sub>dis</sub>	disable time	OE to Qn; see Fig. 7 [4	]							
		V <sub>CC</sub> = 3.0 V to 3.6 V								
		C <sub>L</sub> = 15 pF	-	6.8	11.0	1.0	13.0	1.0	14.0	ns
		C <sub>L</sub> = 50 pF	-	9.7	14.5	1.0	16.5	1.0	18.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V								
		C <sub>L</sub> = 15 pF	-	4.6	7.7	1.0	9.0	1.0	10.0	ns
		C <sub>L</sub> = 50 pF	-	7.4	9.7	1.0	11.0	1.0	12.5	ns
t <sub>W</sub>	pulse width	LE HIGH; see Fig. 6								
		V <sub>CC</sub> = 3.0 V to 3.6 V	5.0	-	-	5.0	-	5.0	-	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 LE; see Fig. 8								
		V <sub>CC</sub> = 3.0 V to 3.6 V	3.5	-	-	3.5	-	3.5	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	3.5	-	-	3.5	-	3.5	-	ns
t <sub>h</sub>	hold time	Dn to LE; see Fig. 8								
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.5	-	-	1.5	-	1.5	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.5	-	-	1.5	_	1.5	-	ns

Symbol	Parameter	Conditions		25 °C		-40 °C 1	to +85 °C	-40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	Min	Max	
C <sub>PD</sub>	power dissipation capacitance	$f_i$ = 1 MHz; [5] $V_I$ = GND to $V_{CC}$	-	12	-	-	-	-	-	pF
74AHCT	573; V <sub>CC</sub> = 4.5	5 V to 5.5 V								
t <sub>pd</sub>	propagation	Dn to Qn; see Fig. 5 [2]								
	delay	C <sub>L</sub> = 15 pF	-	3.5	5.5	1	6.5	1	7.0	ns
		C <sub>L</sub> = 50 pF	-	4.9	7.5	1	8.5	1	9.5	ns
		LE to Qn; see Fig. 6 [2]								
		C <sub>L</sub> = 15 pF	-	3.9	6.0	1	7.0	1	7.5	ns
		C <sub>L</sub> = 50 pF	-	5.5	8.5	1	9.5	1	11.0	ns
t <sub>en</sub>	enable time	OE to Qn; see Fig. 7 [3]								
		C <sub>L</sub> = 15 pF	-	4.1	6.5	1	7.5	1	8.5	ns
		C <sub>L</sub> = 50 pF	-	5.9	8.5	1	10.0	1	11.0	ns
t <sub>dis</sub>	disable time	OE to Qn; see Fig. 7 [4]								
		C <sub>L</sub> = 15 pF	-	4.5	6.5	1	7.5	1	8.5	ns
		C <sub>L</sub> = 50 pF	-	6.4	9.0	1	10.0	1	11.5	ns
t <sub>W</sub>	pulse width	LE HIGH; see Fig. 6	5.0	-	-	5.0	-	5.0	-	ns
t <sub>su</sub>	set-up time	Dn to LE; see Fig. 8	3.5	-	-	3.5	-	3.5	-	ns
t <sub>h</sub>	hold time	Dn to LE; see Fig. 8	1.5	-	-	1.5	-	1.5	-	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i$ = 1 MHz; [5] $V_I$ = GND to $V_{CC}$	-	18	-	-	-	-	-	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  $t_{PHL}$  and  $t_{PLH}.$
- [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:

 $f_i$  = input frequency in MHz;

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

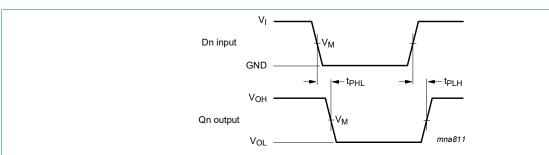
C<sub>L</sub> = output load capacitance in pF;

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

N = number of inputs switching;

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

## 10.1. Waveforms and test circuit



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. 5. Data input to output propagation delays

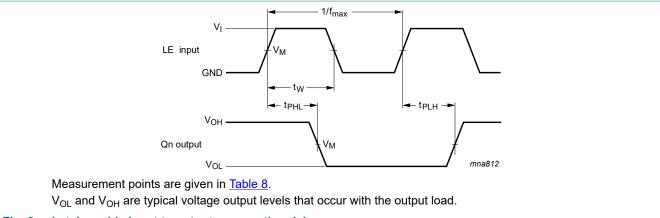


Fig. 6. Latch enable input to output propagation delays

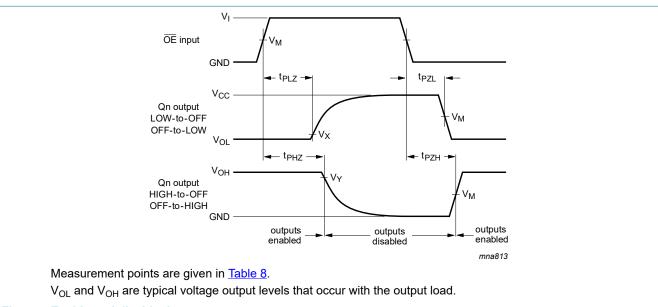
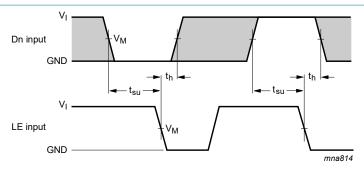


Fig. 7. Enable and disable times

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Measurement points are given in Table 8.

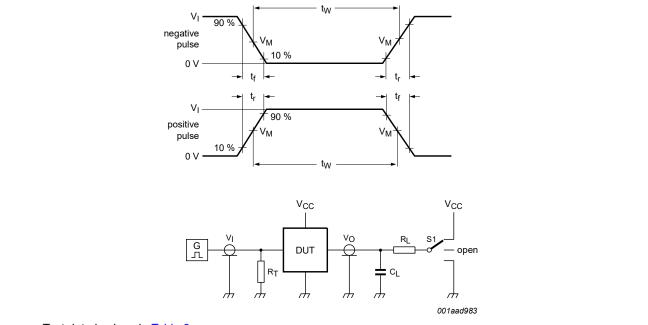
 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical voltage output levels that occur with the output load.

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

Fig. 8. Data set-up and 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>						
74AHC573	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						
74AHCT573	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.

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

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

S1 = test selection switch.

Fig. 9. Test circuit for measuring switching times

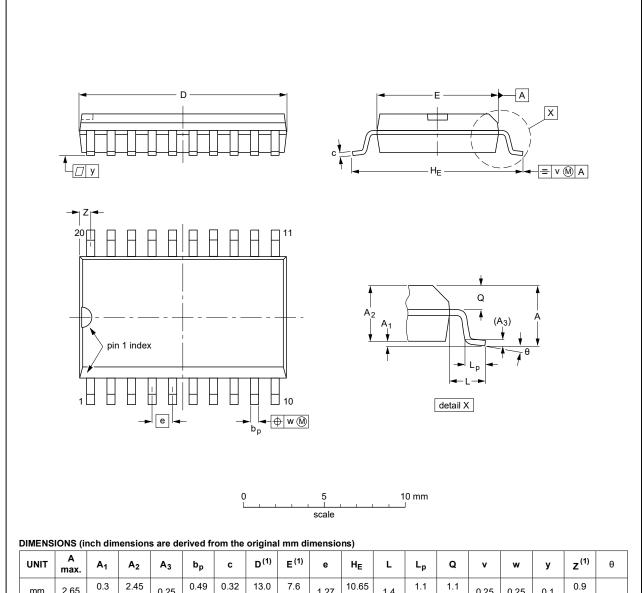
Table 9. Test data

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>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>		
74AHC573	V <sub>CC</sub>	≤ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>		
74AHCT573	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°

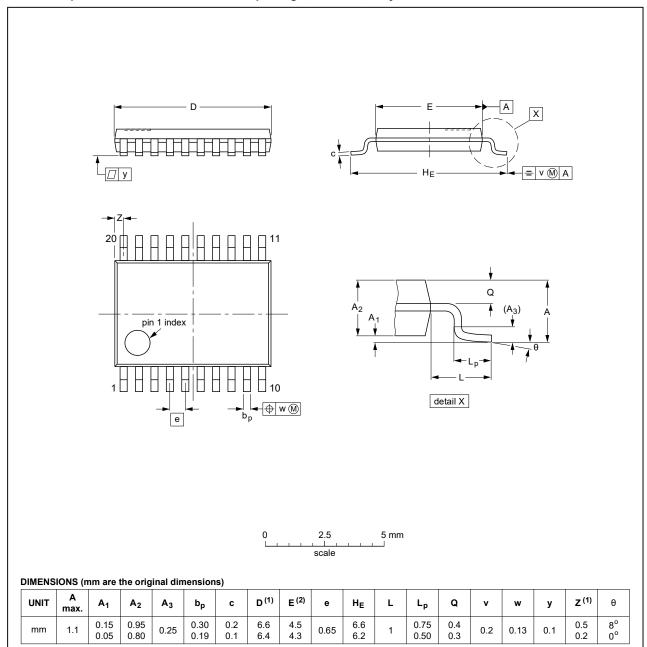
1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE	REFERENCES			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)

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

Fig. 11. Package outline SOT360-1 (TSSOP20)

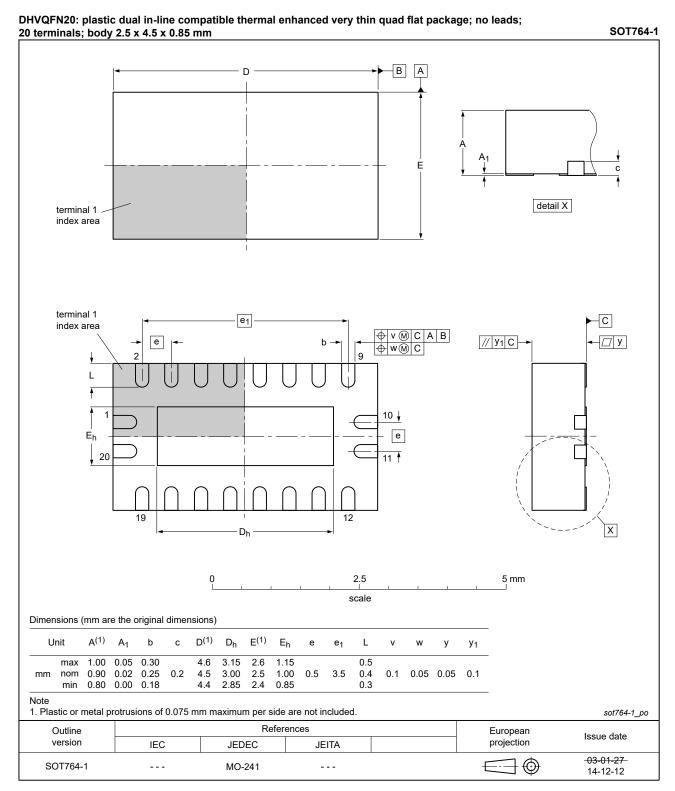


Fig. 12. Package outline SOT764-1 (DHVQFN20)

## 12. Abbreviations

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

Acronym	Description	
CDM	Charged Device Model	
CMOS	Complementary Metal-Oxide Semiconductor	
ESD	ElectroStatic Discharge	
НВМ	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_AHCT573 v.9.1	20231011	Product data sheet	-	74AHC_AHCT573 v.8	
Modifications:	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74AHC_AHCT573 v.8	20200713 Product data sheet - 74#			74AHC_AHCT573 v.7	
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 have been updated.</li> <li>Table 6: Conditions for I<sub>OZ</sub> corrected.</li> <li>Package outline drawing of SOT764-1 (Fig. 12) updated.</li> </ul>				
74AHC_AHCT573 v.7	20111108	Product data sheet	-	74AHC_AHCT573 v.6	
Modifications:	Legal pages updated.				
74AHC_AHCT573 v.6	20101125	Product data sheet	-	74AHC_AHCT573 v.5	
74AHC_AHCT573 v.5	20100325	Product data sheet	-	74AHC_AHCT573 v.4	
74AHC_AHCT573 v.4	20100303	Product data sheet	-	74AHC_AHCT573 v.3	
74AHC_AHCT573 v.3	20080424	Product data sheet	-	74AHC_AHCT573 v.2	
74AHC_AHCT573 v.2	20031208	Product specification	-	74AHC_AHCT573 v.1	
74AHC_AHCT573 v.1	19990927	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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