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Kind regards,

Team Nexperia

## 74AHC373; 74AHCT373

# Octal D-type transparant latch; 3-state Rev. 03 — 20 May 2008

**Product data sheet** 

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

The 74AHC373; 74AHCT373 is a high-speed Si-gate CMOS device and is pin compatible with Low-power Schottky TTL (LSTTL). It is specified in compliance with JEDEC standard No. 7-A.

The 74AHC373; 74AHCT373 consists of eight D-type transparent latches featuring separate D-type inputs for each latch and 3-state true outputs for bus oriented applications. A latch enable input (LE) and an output enable input ( $\overline{OE}$ ) are common to all latches.

When pin LE is HIGH, data at the Dn inputs enters the latches. In this condition the latches are transparent, i.e. a latch output will change state each time its corresponding Dn input changes. When pin LE is LOW, the latches store the information that is present at the Dn inputs, after a set-up time preceding the HIGH-to-LOW transition of LE.

When pin  $\overline{OE}$  is LOW, the contents of the 8 latches are available at the outputs. When pin OE is HIGH, the outputs go to the high-impedance OFF-state. Operation of the OE input does not affect the state of the latches.

The 74AHC373; 74AHCT373 is functionally identical to the 74AHC573; 74AHCT573, but has a different pin arrangement.

#### 2. **Features**

- Balanced propagation delays
- All inputs have a Schmitt-trigger action
- Common 3-state output enable input
- Inputs accepts voltages higher than V<sub>CC</sub>
- Functionally identical to the 74AHC573; 74AHCT573
- Input levels:
  - ◆ For 74AHC373: CMOS input level
  - ◆ For 74AHCT373: TTL input level
- ESD protection:
  - HBM EIA/JESD22-A114E exceeds 2000 V
  - MM EIA/JESD22-A115-A exceeds 200 V
  - CDM EIA/JESD22-C101C exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

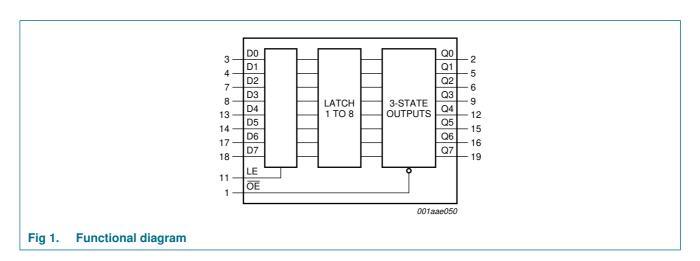


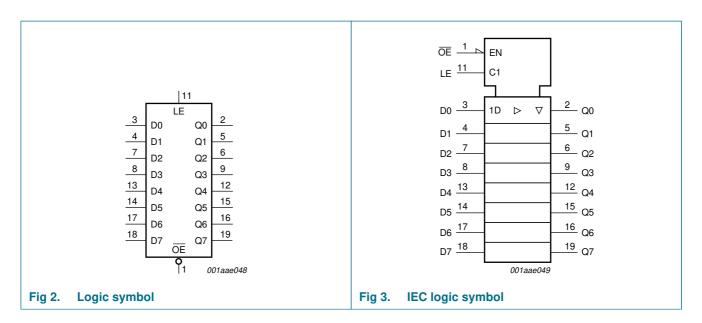
## 3. Ordering information

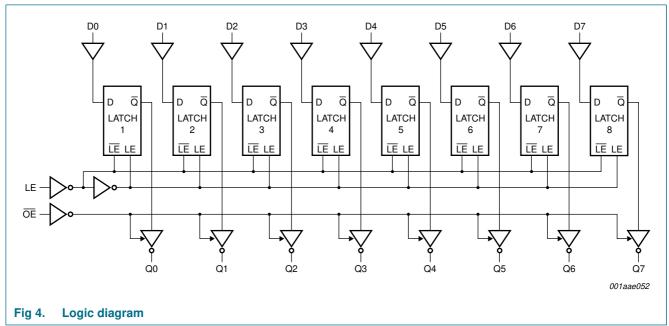
Table 1. Ordering information

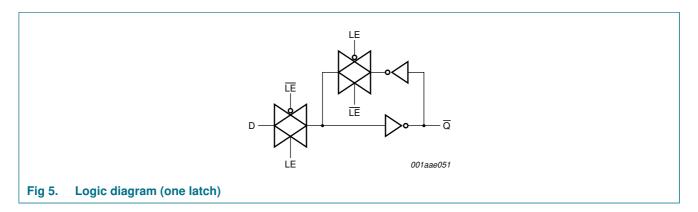
Type number	Package			
	Temperature range	Name	Description	Version
74AHC373				'
74AHC373D	–40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1
74AHC373PW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1
74AHCT373				
74AHCT373D	–40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1
74AHCT373PW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1

## 4. Functional diagram



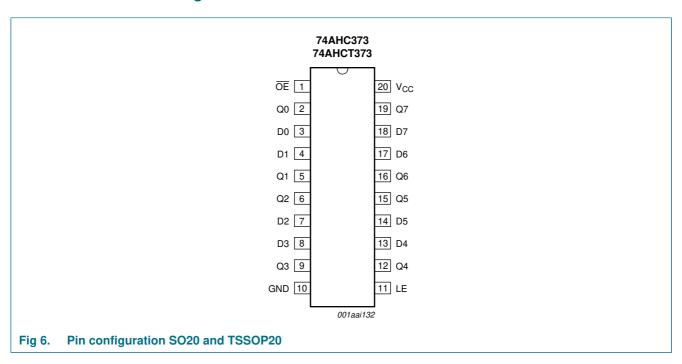






## 5. Pinning information

#### 5.1 Pinning



## 5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description				
ŌĒ	1	3-state output enable input (active LOW)				
Q0	2	3-state latch output				
D0	3	data input				
D1	4	ata input				
Q1	5	3-state latch output				
Q2	6	3-state latch output				
D2	7	data input				
D3	8	data input				
Q3	9	3-state latch output				
GND	10	ground (0 V)				
LE	11	latch enable input (active HIGH)				
Q4	12	3-state latch output				
D4	13	data input				
D5	14	data input				
Q5	15	3-state latch output				
Q6	16	3-state latch output				
D6	17	data input				

Table 2. Pin description ...continued

Symbol	Pin	Description
D7	18	data input
Q7	19	3-state latch output
$V_{CC}$	20	supply voltage

## 6. Functional description

Table 3. Function table[1]

Operating mode	Control		Input	Internal	Output
	OE	LE	Dn	latch	Q0 to Q7
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	Χ	Χ	Χ	Z
			X	Χ	Z

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

## 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	$V_{I} < -0.5 V$	<u>[1]</u> –20	-	mA
l <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$	<u>[1]</u> –20	+20	mA
lo	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
$I_{GND}$	ground current		<b>−75</b>	-	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.

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;

X = don't care;

Z = high-impedance OFF-state.

<sup>[2]</sup> For SO20 packages: above 70 °C the value of  $P_{tot}$  derates linearly at 8 mW/K. For TSSOP20 packages: above 60 °C the value of  $P_{tot}$  derates linearly at 5.5 mW/K.

## 8. Recommended operating conditions

Table 5. Operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
74AHC373						
V <sub>CC</sub>	supply voltage		2.0	5.0	5.5	V
V <sub>I</sub>	input voltage		0	-	5.5	V
V <sub>O</sub>	output voltage		0	-	$V_{CC}$	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	-	100	ns/V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	20	ns/V
74AHCT37	3					
V <sub>CC</sub>	supply voltage		4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage		0	-	$V_{CC}$	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	20	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 to +85 °C		-40 °C to +125 °C	
			Min	Тур	Max	Min	Max	Min	Max	
74AHC3	73						'			
$V_{IH}$	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
$V_{IL}$	LOW-level	$V_{CC} = 2.0 \text{ V}$	-	-	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	$I_{O} = -50 \ \mu A; \ V_{CC} = 2.0 \ V$	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
		$I_O = -50 \ \mu A; \ V_{CC} = 4.5 \ V$	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
$V_{OL}$	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
		$I_O = 50 \mu A; V_{CC} = 4.5 V$	-	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
		$I_{\rm O}$ = 8.0 mA; $V_{\rm CC}$ = 4.5 V	-	-	0.36	-	0.44	-	0.55	V

 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	
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH}$ or $V_{IL}$ ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.2 5	-	±2.5	-	±10.0	μΑ
II	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 0$ V to 5.5 V	-	-	0.1	-	1.0	-	2.0	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	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
Co	output capacitance		-	4	-	-	-	-	10	pF
74AHCT	373									
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	-	-	2.0	-	2.0	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	8.0	-	8.0	-	0.8	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	$I_{O} = -50  \mu A$	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O} = -8.0 \text{ mA}$	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	$I_O = 50 \mu A$	-	0	0.1	-	0.1	-	0.1	V
		$I_0 = 8.0 \text{ mA}$	-	-	0.36	-	0.44	-	0.55	V
l <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH}$ or $V_{IL}$ ; $V_{O} = V_{CC}$ or GND per input pin; other inputs at $V_{CC}$ or GND; $I_{O} = 0$ A; $V_{CC} = 5.5$ V	-	-	±0.2 5	-	±2.5	-	±10.0	μΑ
II	input leakage current	$V_I = 5.5 \text{ V or GND};$ $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	0.1	-	1.0	-	2.0	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
$\Delta I_{CC}$	additional supply current	per input pin; $V_I = V_{CC} - 2.1 \text{ V; other pins at}$ $V_{CC} \text{ or GND; } I_O = 0 \text{ A;}$ $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	-	1.35	-	1.5	-	1.5	μΑ
Cı	input capacitance	$V_I = V_{CC}$ or GND	-	3	10	-	10	-	10	pF
C <sub>O</sub>	output capacitance		-	4	-	-	-	-	10	pF

## 10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 11.

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	
74AHC3	73							•			
t <sub>pd</sub>	propagation	Dn to Qn; see Figure 7	[2]								
	delay	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	6.0	11.4	1.0	13.5	1.0	14.5	ns
		C <sub>L</sub> = 50 pF		-	7.8	14.9	1.0	17.0	1.0	19.0	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	4.0	7.2	1.0	8.5	1.0	9.0	ns
		C <sub>L</sub> = 50 pF		-	5.3	9.2	1.0	10.5	1.0	11.5	ns
		LE to Qn; see Figure 8	[2]								
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	6.3	11.0	1.0	13.0	1.0	14.0	ns
		C <sub>L</sub> = 50 pF		-	8.3	14.5	1.0	16.5	1.0	18.5	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	4.3	7.2	1.0	8.5	1.0	9.0	ns
		C <sub>L</sub> = 50 pF		-	5.6	9.7	1.0	11.1	1.0	12.5	ns
t <sub>en</sub>	enable time	OE to Qn; see Figure 9	[3]								
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	5.6	11.4	1.0	13.5	1.0	14.5	ns
		C <sub>L</sub> = 50 pF		-	7.5	14.9	1.0	17.0	1.0	19.0	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	3.8	8.1	1.0	9.5	1.0	10.5	ns
		$C_L = 50 pF$		-	5.2	10.1	1.0	11.5	1.0	13.0	ns
t <sub>dis</sub>	disable time	OE to Qn; see Figure 9	<u>[4]</u>								
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	5.6	10.0	1.0	12.0	1.0	13.0	ns
		C <sub>L</sub> = 50 pF		-	9.2	13.3	1.0	15.0	1.0	17.0	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$									
		C <sub>L</sub> = 15 pF		-	4.3	7.2	1.0	8.5	1.0	9.5	ns
		C <sub>L</sub> = 50 pF		-	6.4	9.2	1.0	10.5	1.0	11.5	ns
t <sub>W</sub>	pulse width	LE HIGH or LOW;									
		see Figure 8									
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		5.0	-	-	5.0	-	5.0	-	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		5.0	-	-	5.0	-	5.0	-	ns
$t_{su}$	set-up time	Dn to LE; see Figure 10									
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		4.0	-	-	4.0	-	4.0	-	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		4.0	-	-	4.0	-	4.0	-	ns

 Table 7.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 11.

Symbol	Parameter	Conditions			25 °C		–40 °C t	o +85 °C	–40 °C to	+125 °C	Uni
				Min	Typ[1]	Max	Min	Max	Min	Max	
t <sub>h</sub>	hold time	Dn to LE; see Figure 10					•			1	
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	-	-	1.0	-	1.0	-	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		1.0	-	-	1.0	-	1.0	-	ns
C <sub>PD</sub>	power dissipation capacitance	$f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	[5]	-	10	-	-	-	-	-	pF
74AHCT	373; V <sub>CC</sub> = 4.5	V to 5.5 V									
t <sub>pd</sub> propagation	Dn to Qn; see Figure 7	<u>[4]</u>									
	delay	C <sub>L</sub> = 15 pF		-	4.0	8.5	1.0	9.5	1.0	11.0	ns
		$C_L = 50 pF$		-	5.2	9.5	1.0	10.5	1.0	12.0	ns
		LE to Qn; see Figure 8									
		$C_L = 15 pF$	<u>[4]</u>	-	4.3	12.3	1.0	13.5	1.0	15.5	ns
		$C_L = 50 pF$		-	5.5	13.3	1.0	14.5	1.0	17.0	ns
t <sub>en</sub>	enable time	OE to Qn; see Figure 9									
		C <sub>L</sub> = 15 pF		-	4.0	10.9	1.0	12.5	1.0	14.0	ns
		$C_L = 50 pF$	<u>[4]</u>	-	5.2	11.9	1.0	13.5	1.0	15.0	ns
t <sub>dis</sub>	disable time	OE to Qn; see Figure 9									
		C <sub>L</sub> = 15 pF		-	4.4	10.2	1.0	11.0	1.0	13.0	ns
		$C_L = 50 pF$		-	6.5	11.2	1.0	12.0	1.0	14.0	ns
t <sub>W</sub>	pulse width	LE HIGH; see Figure 8	<u>[4]</u>	6.5	-	-	6.5	-	6.5	-	ns
t <sub>su</sub>	set-up time	Dn to LE; see Figure 10		3.5	-	-	3.5	-	3.5	-	ns
t <sub>h</sub>	hold time	Dn to LE; see Figure 10		1.5	-	-	1.5	-	1.5	-	ns
$C_{PD}$	power dissipation capacitance	$f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{\text{CC}}$	<u>[5]</u>	-	12	-	-	-	-	-	pF

<sup>[1]</sup> Typical values are measured at nominal supply voltage ( $V_{CC} = 3.3 \text{ V}$  and  $V_{CC} = 5.0 \text{ V}$ ).

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

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;

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

<sup>[2]</sup>  $t_{pd}$  is the same as  $t_{PHL}$  and  $t_{PLH}$ .

<sup>[3]</sup>  $t_{en}$  is the same as  $t_{PZH}$  and  $t_{PZL}$ .

<sup>[4]</sup>  $t_{dis}$  is the same as  $t_{PHZ}$  and  $t_{PLZ}$ .

<sup>[5]</sup>  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

#### 11. Waveforms

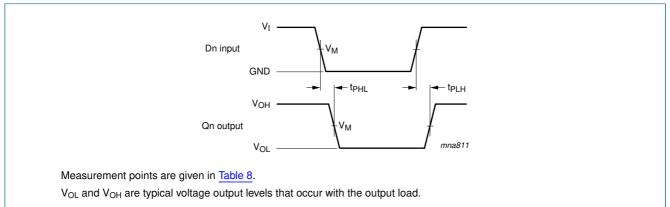
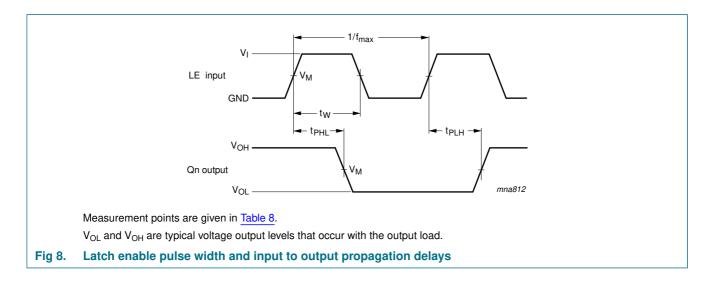


Fig 7. Data input to output propagation delays



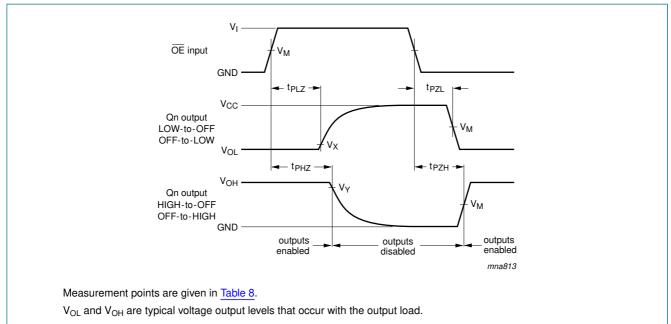
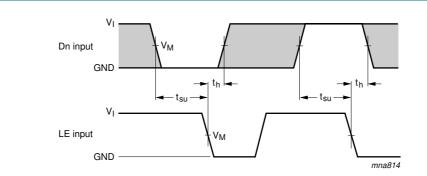


Fig 9. Enable and disable times



Measurement points are given in Table 8.

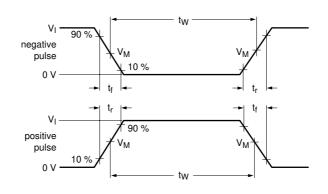
 $V_{OL}$  and  $V_{OH}$  are typical voltage output levels that occur with the output load.

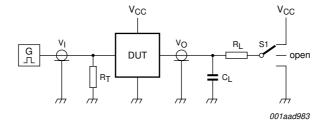
The shaded areas indicate when the input is permitted to change for predicable output performance.

Fig 10. 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>				
74AHC373	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V <sub>OL</sub> + 0.3 V	$V_{OH} - 0.3 V$				
74AHCT373	1.5 V	$0.5 \times V_{CC}$	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  $Z_o$  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 11. Test circuitry for switching times

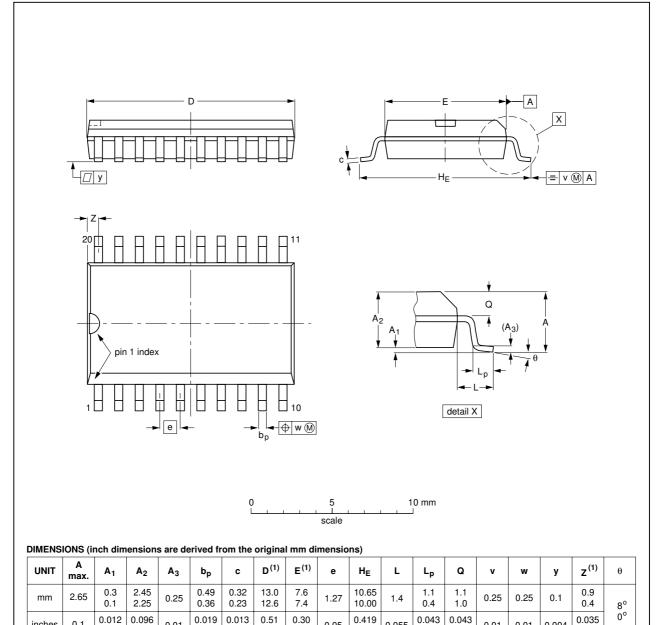
Table 9. **Test data** 

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>
74AHC373	$V_{CC}$	≤ 3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74AHCT373	3.0 V	≤3.0 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



#### inches 0.004

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

0.014

0.009

0.49

0.01

0.089

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	

0.05

0.394

0.055

0.016

0.039

0.01

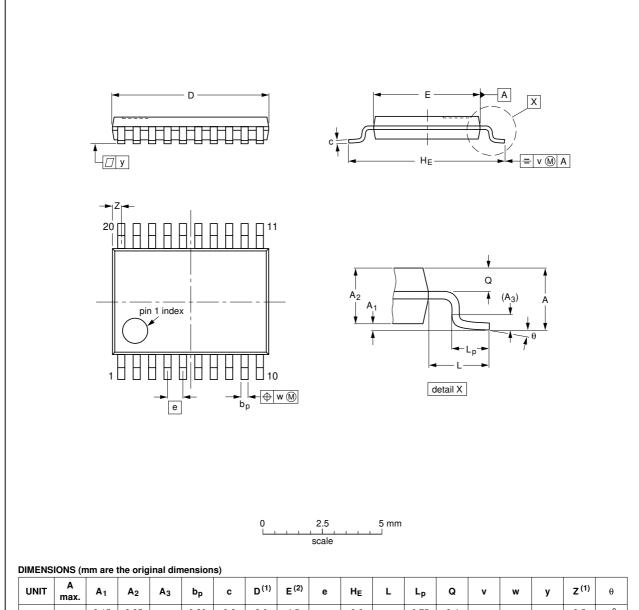
0.01

0.004

Fig 12. Package outline SOT163-1 (SO20)

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>	A <sub>3</sub>	bp	С	D <sup>(1)</sup>	E <sup>(2)</sup>	е	HE	L	Lp	Q	v	w	у	Z (1)	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	1330E DATE
SOT360-1		MO-153				<del>-99-12-27</del> 03-02-19

Fig 13. Package outline SOT360-1 (TSSOP20)

## 13. Abbreviations

#### Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
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				
74AHC_AHCT373_3	20080520	Product data sheet	-	74AHC_AHCT373_2				
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 have been adapted to the new company name where appropriate.</li> </ul>							
	• Table 6: con	ditions for the input leakage	current have been chan	ged.				
74AHC_AHCT373_2	19991123	Product specification	-	74AHC_AHCT373_1				
74AHC_AHCT373_1	19981211	Product specification	-	-				

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#### 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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