## 74LVC573A

# Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

Rev. 7 — 30 March 2020

Product data sheet

#### 1. General description

The 74LVC573A 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 (LE) input and an Output Enable (OE) input are common to all internal latches.

When LE is HIGH, data at the Dn inputs enters the latches. In this condition, the latches are transparent, that is, a latch output changes each time its corresponding D-input changes. When LE is LOW, the latches store the information that was present at the D-inputs one set-up time preceding the HIGH-to-LOW transition of LE.

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

Inputs can be driven from either 3.3~V or 5~V devices. When disabled, up to 5.5~V can be applied to the outputs. These features allow the use of these devices as translators in mixed 3.3~V or 5~V applications.

The 74LVC573A is functionally identical to the 74LVC373A, but has a different pin arrangement.

#### 2. Features and benefits

- 5 V tolerant inputs/outputs, for interfacing with 5 V logic
- Supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- Direct interface with TTL levels
- High-impedance when V<sub>CC</sub> = 0 V
- Flow-through pinout architecture
- Complies with JEDEC standard:
  - JESD8-7A (1.65 V to 1.95 V)
     JESD8-5A (2.3 V to 2.7 V)
  - JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-B exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



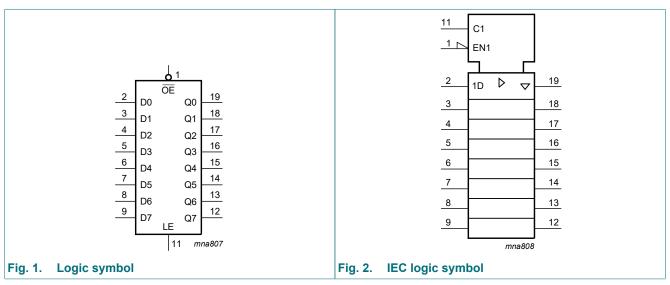
#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

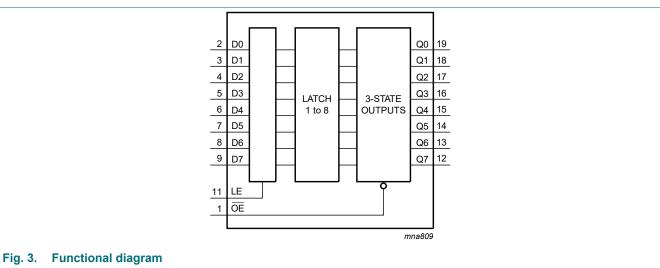
### 3. Ordering information

**Table 1. Ordering information** 

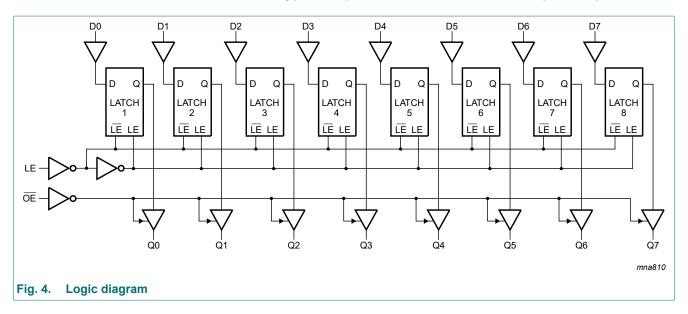
Type number	Package	Package										
	Temperature range	Name	Description	Version								
74LVC573AD	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1								
74LVC573ADB	-40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads; body width 5.3 mm	SOT339-1								
74LVC573APW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1								
74LVC573ABQ	-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



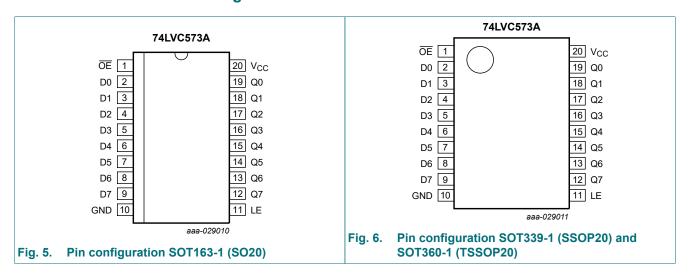


#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

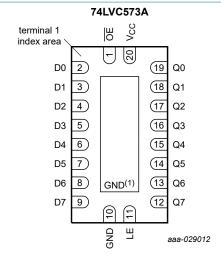


### 5. Pinning information

#### 5.1. Pinning



#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state



Transparent top view

(1) This is not a ground pin. There is no electrical or mechanical requirement to solder the pad. In case soldered, the solder land should remain floating or connected to GND.

Fig. 7. Pin configuration SOT764-1 (DHVQFN20)

#### 5.2. Pin description

Table 2. Pin description

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

### 6. Functional description

#### Table 3. Functional 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; l = LOW voltage level one set-up time prior to the HIGH-to-LOW LE transition Z = high-impedance OFF-state

Operating modes	Input			Internal latch	Output
	OE	LE	Dn		Qn
Enable and read register	L	Н	L	L	L
(transparent mode)	L	Н	Н	Н	Н
Latch and read register	L	L	I	L	L
	L	L	h	Н	Н
Latch register and disable outputs	Н	L	I	L	Z
	Н	L	h	Н	Z

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

### 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	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_O > V_{CC}$ or $V_O < 0$	-	±50	mA
Vo	output voltage	[2]	-0.5	V <sub>CC</sub> + 0.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ [3]	-	500	mW

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

#### 8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	-	3.6	V
		functional	1.2	-	-	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH- or LOW-state	0	-	V <sub>CC</sub>	V
		output 3-state	0	-	5.5	V
T <sub>amb</sub>	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.7 V	0	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 3.6 V	0	-	10	ns/V

<sup>[2]</sup> The output voltage ratings may be exceeded if the output current ratings are observed.

<sup>[3]</sup> For SOT163-1 (SO20) package: P<sub>tot</sub> derates linearly with 12.3 mW/K above 109 °C.

For SOT339-1 (SSOP20) packages:  $P_{tot}$  derates linearly with 10.0 mW/K above 100 °C.

For SOT360-1 (TSSOP20) package: Ptot 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.

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

### 9. Static characteristics

**Table 6. Static characteristics** 

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

Symbol Parameter		Conditions	-40	°C to +85	°C	-40 °C to	Unit	
			Min	Typ [1]	Max	Min	Max	1
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65V <sub>CC</sub>	-	-	0.65V <sub>CC</sub>	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
$V_{IL}$	LOW-level	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35V <sub>CC</sub>	-	0.35V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
$V_{OH}$	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	output voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	V <sub>CC</sub> - 0.2	-	-	V <sub>CC</sub> - 0.3	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	1.05	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	1.8	-	-	1.65	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V	2.2	-	-	2.05	-	V
		I <sub>O</sub> = -18 mA; V <sub>CC</sub> = 3.0 V	2.4	-	-	2.25	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.2	-	-	2.0	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	output voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 3.6 V	-	-	0.2	-	0.3	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.65	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.6	-	0.8	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.4	-	0.6	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.8	V
l <sub>l</sub>	input leakage current	$V_{CC} = 3.6 \text{ V}; V_I = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μΑ
l <sub>OZ</sub>	OFF-state output current	$V_I = V_{IH} \text{ or } V_{IL}; V_{CC} = 3.6 \text{ V}; V_O = 5.5 \text{ V or GND}$	-	0.1	±5	-	±20	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	0.1	±10	-	±20	μΑ
$I_{CC}$	supply current	$V_{CC} = 3.6 \text{ V}; V_I = V_{CC} \text{ or GND}; I_O = 0 \text{ A}$	-	0.1	10	-	40	μΑ
ΔI <sub>CC</sub>	additional supply current	per input pin; V <sub>CC</sub> = 2.7 V to 3.6 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A	-	5	500	-	5000	μΑ
Cı	input capacitance	$V_{CC}$ = 0 V to 3.6 V; $V_{I}$ = GND to $V_{CC}$	-	5.0	-	-	-	pF

<sup>[1]</sup> All typical values are measured at  $V_{CC}$  = 3.3 V (unless stated otherwise) and  $T_{amb}$  = 25 °C.

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

### 10. Dynamic characteristics

**Table 7. Dynamic characteristics** 

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 12.

Symbol	Parameter	Conditions	-40	C to +85	°C	-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
t <sub>pd</sub>	propagation delay	Dn to Qn; see Fig. 8 [2]						
		V <sub>CC</sub> = 1.2 V	-	16.0	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	7.8	16.3	2.1	18.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.5	4.1	8.0	1.5	9.2	ns
		V <sub>CC</sub> = 2.7 V	1.5	4.1	7.2	1.5	9.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.5	3.4	6.2	1.5	8.0	ns
		LE to Qn; see Fig. 9 [2]						
		V <sub>CC</sub> = 1.2 V	-	16.0	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.0	7.7	16.0	2.0	18.4	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.5	4.1	7.8	1.5	9.1	ns
		V <sub>CC</sub> = 2.7 V	1.5	3.7	7.5	1.5	9.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.5	3.4	6.5	1.5	8.5	ns
t <sub>en</sub>	enable time	OE to Qn; see Fig. 10 [2]						
		V <sub>CC</sub> = 1.2 V	-	18.0	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.7	7.5	17.5	1.7	20.2	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.5	4.2	9.2	1.5	10.6	ns
		V <sub>CC</sub> = 2.7 V	1.5	4.2	8.5	1.5	11.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.5	3.4	7.5	1.5	9.5	ns
t <sub>dis</sub>	disable time	OE to Qn; see Fig. 10 [2]						
		V <sub>CC</sub> = 1.2 V	-	8.0	-	-	-	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3.3	10.1	1.0	11.6	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.3	1.8	5.7	0.3	6.6	ns
		V <sub>CC</sub> = 2.7 V	1.5	3.0	6.5	1.5	8.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.5	2.5	6.0	1.5	7.5	ns
t <sub>W</sub>	pulse width	LE HIGH; see Fig. 9						
		V <sub>CC</sub> = 1.65 V to 1.95 V	5.0	-	-	5.0	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	4.0	-	-	4.0	-	ns
		V <sub>CC</sub> = 2.7 V	3.2	-	-	3.2	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	3.2	1.6	-	3.2	-	ns
t <sub>su</sub>	set-up time	Dn to LE; see <u>Fig. 11</u>						
		V <sub>CC</sub> = 1.65 V to 1.95 V	4.0	-	-	4.0	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.5	-	-	2.5	-	ns
		V <sub>CC</sub> = 2.7 V	1.7	-	-	1.7	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	-	-	1.7	-	ns
t <sub>h</sub>	hold time	Dn to LE; see <u>Fig. 11</u>						
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	-	-	3.0	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.9	-	-	1.9	-	ns
		V <sub>CC</sub> = 2.7 V	1.5	-	-	1.5	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.4	-	-	1.4	-	ns

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#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

Symbol	Parameter	Conditions	ns -			-40 °C to	Unit	
			Min	Typ [1]	Max	Min	Max	
t <sub>sk(0)</sub>	output skew time	V <sub>CC</sub> = 3.0 V to 3.6 V	] -	-	1.0	-	1.5	ns
C <sub>PD</sub>	power dissipation	per latch; $V_I = GND$ to $V_{CC}$	]					
	capacitance	V <sub>CC</sub> = 1.65 V to 1.95 V	-	7.1	-		-	pF
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	10.3	-		-	pF
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	13.2	-		-	pF

- Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.2 V, 1.8 V, 2.5 V, 2.7 V and 3.3 V respectively.
- [2]  $t_{\text{pd}}$  is the same as  $t_{\text{PLH}}$  and  $t_{\text{PHL}}$ .

 $t_{en}$  is the same as  $t_{PZL}$  and  $t_{PZH}$ .

 $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ .

- Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.
- $C_{PD}$  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; f<sub>o</sub> = output frequency in MHz

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

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

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

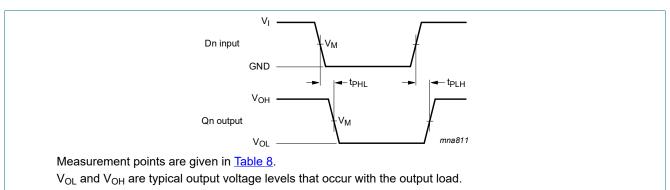
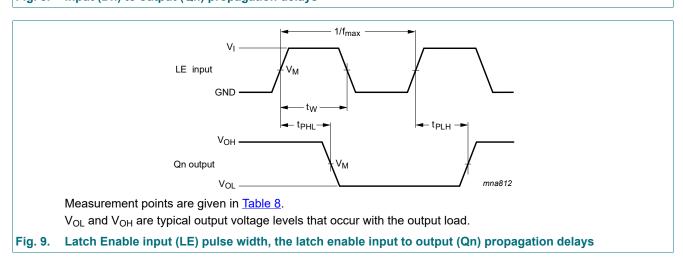


Fig. 8. Input (Dn) to output (Qn) propagation delays



#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

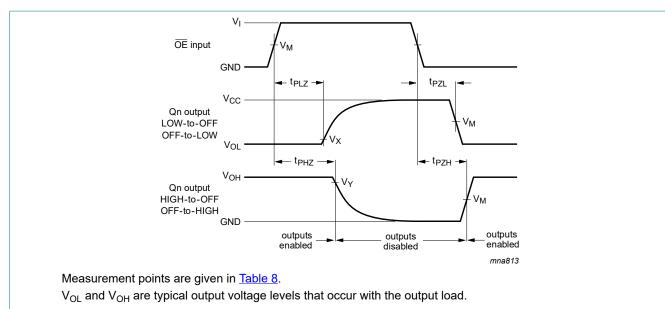
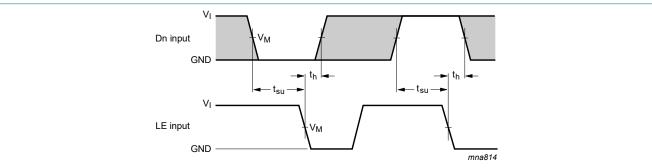


Fig. 10. 3-state enable and disable times



Measurement points are given in Table 8.

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

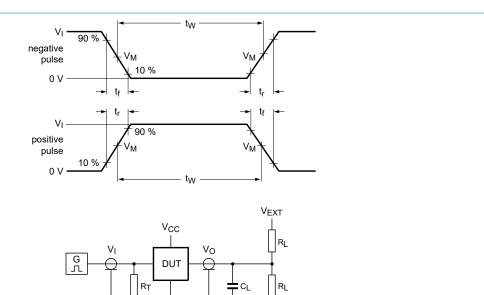
Fig. 11. Data set-up and hold times for the Dn input to the LE input

**Table 8. Measurement points** 

Supply voltage	Input		Output						
V <sub>CC</sub>	cc V <sub>I</sub>		V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>				
1.2 V	V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V				
1.65 V to 1.95 V	V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V				
2.3 V to 2.7 V	V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V				
2.7 V	2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V				
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V				

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

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Test data is given in <u>Table 9</u>. Definitions for test circuit:

 $R_L$  = Load resistance.

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

 $R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator.

V<sub>EXT</sub> = External voltage for measuring switching times.

Fig. 12. Test circuit for measuring switching times

Table 9. Test data

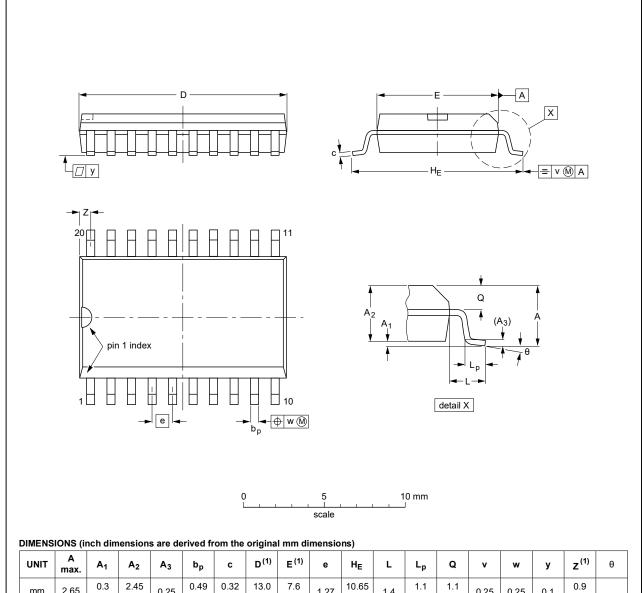
Supply voltage	Input		Load			V <sub>EXT</sub>			
	V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	$t_{PLZ}, t_{PZL}$	$t_{PHZ}$ , $t_{PZH}$		
1.2 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	2 × V <sub>CC</sub>	GND		
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2 ns	30 pF	1 kΩ	open	2 × V <sub>CC</sub>	GND		
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2 ns	30 pF	500 Ω	open	2 × V <sub>CC</sub>	GND		
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V <sub>CC</sub>	GND		
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	2 × V <sub>CC</sub>	GND		

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

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

Fig. 13. Package outline SOT163-1 (SO20)

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

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

SOT339-1

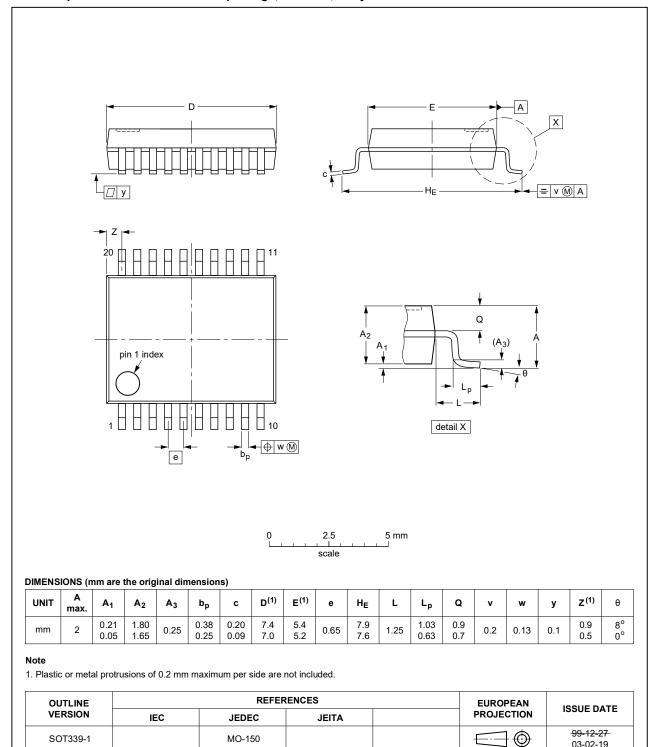


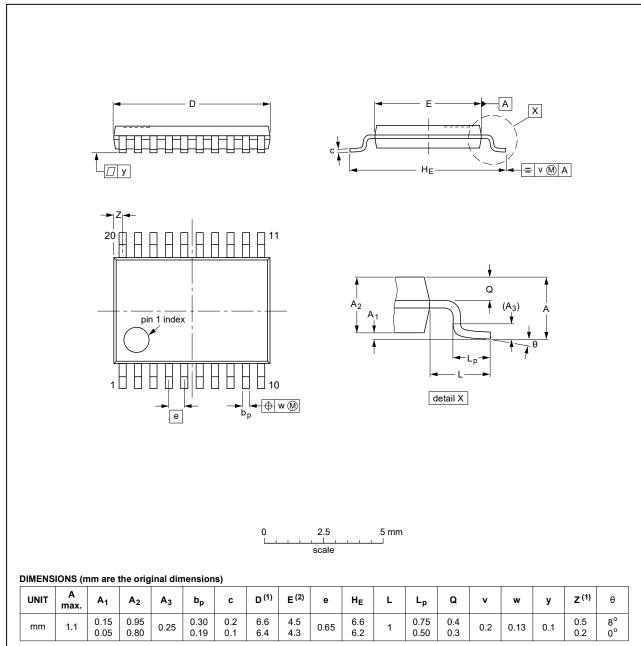
Fig. 14. Package outline SOT339-1 (SSOP20)

03-02-19

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

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. 15. Package outline SOT360-1 (TSSOP20)

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

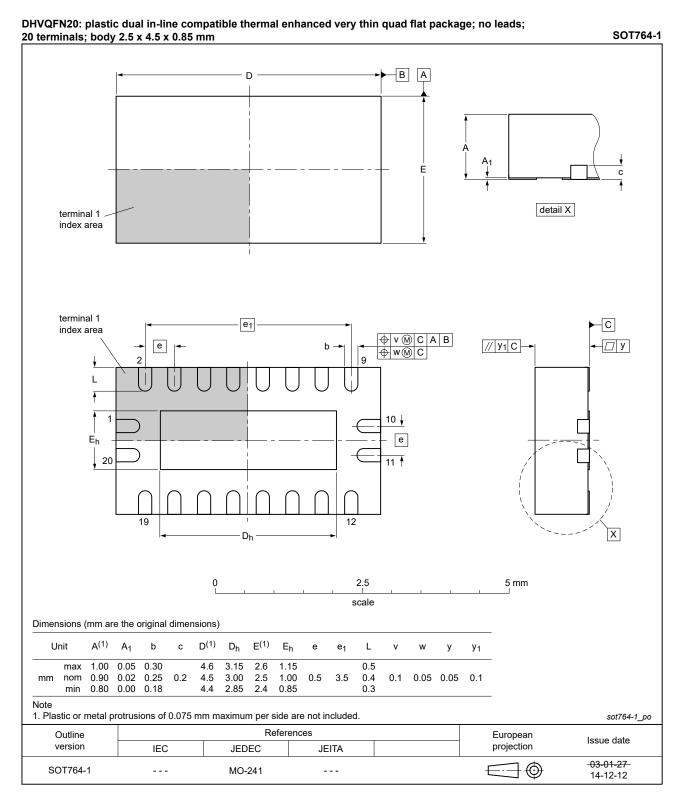


Fig. 16. Package outline SOT764-1 (DHVQFN20)

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

### 12. Abbreviations

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

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

### 13. Revision history

#### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC573A v.7	20200330	Product data sheet	-	74LVC573A v.6		
Modifications:	<u>Table 4</u> : Derating values for P <sub>tot</sub> total power dissipation updated.					
74LVC573A v.6	20180926	Product data sheet	-	74LVC573A v.5		
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>Type number 74LVC573ABX (SOT1045-2) removed.</li> <li>Fig. 16: Package outline drawing SOT764-1 updated</li> </ul>					
74LVC573A v.5	20130219	Product data sheet	-	74LVC573A v.4		
Modifications:	74LVC573ABX added.					
74LVC573A v.4	20121129	Product data sheet	-	74LVC573A 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> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage ranges.</li> </ul>					
74LVC573A v.3	20031003	Product specification	-	74LVC573A v.2		
74LVC573A v.2	20030526	Product specification	-	74LVC573A v.1		
74LVC573A v.1	19980729	Product specification	-	-		

#### Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

#### 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 transparent latch with 5 V tolerant inputs/outputs; 3-state

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