74LVC574A

Octal D-type flip-flop with 5 V tolerant inputs/outputs; positive edge-trigger; 3-state

Rev. 5 — 18 December 2012

Product data sheet

1. General description

The 74LVC574A is an octal D-type flip-flop featuring separate D-type inputs for each flip-flop and 3-state outputs for bus-oriented applications. A clock (CP) and an Output Enable (OE) input are common to all flip-flops.

The eight flip-flops will store the state of their individual D-inputs that meet the set-up and hold times requirements on the LOW to HIGH CP transition.

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

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 74LVC574A is functionally identical to the 74LVC374A, but has a different pin arrangement.

2. Features and benefits

- 5 V tolerant inputs 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_{CC} = 0 V
- 8-bit positive edge-triggered register
- Independent register and 3-state buffer operation
- Flow-through pin-out 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



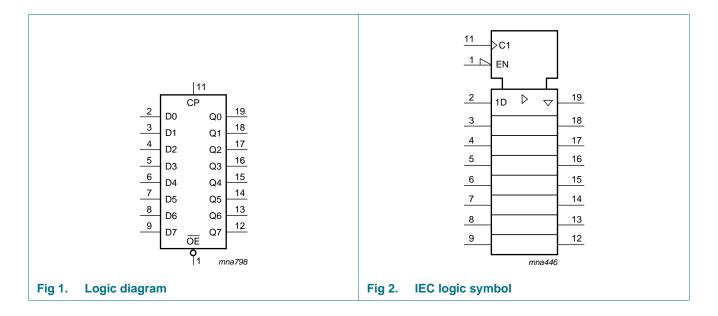
Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

3. Ordering information

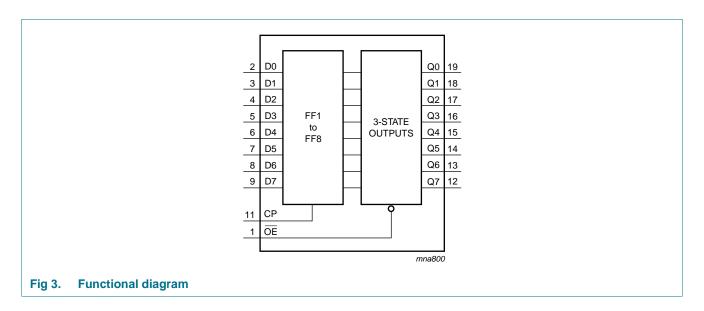
Table 1. Ordering information

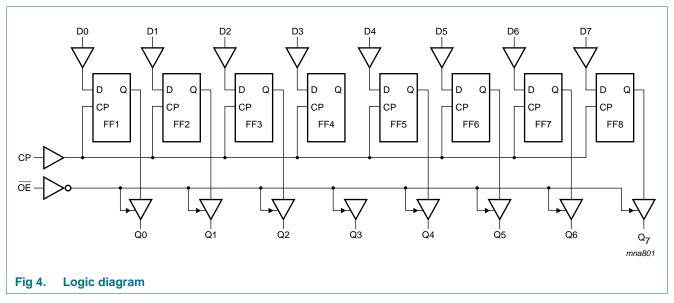
Type number	Package	Package								
	Temperature range	Name	Description	Version						
74LVC574AD	–40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1						
74LVC574ADB	–40 °C to +125 °C	SSOP20	plastic shrink small outline package; 20 leads; body width 5.3 mm	SOT339-1						
74LVC574APW	–40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1						
74LVC574ABQ	–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 \times 4.5 \times 0.85 mm	SOT764-1						

4. Functional diagram



Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

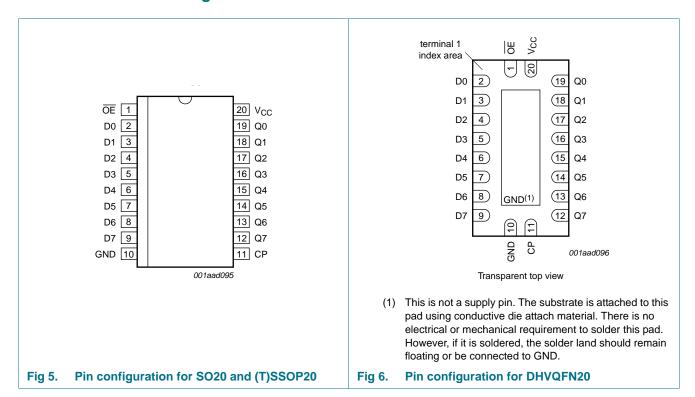




Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
ŌĒ	1	output enable input (active LOW)
СР	11	clock input (LOW to HIGH; edge triggered)
D[0:7]	2, 3, 4, 5, 6, 7, 8, 9	data input
Q[0:7]	19, 18, 17, 16, 15, 14, 13, 12	data output
GND	10	ground (0 V)
V _{CC}	20	supply voltage

Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

6. Functional description

Table 3. Functional table[1]

Operating modes	Input		Internal	Output	
	OE	СР	Dn	flip-flop	Qn
Load and read register	L	\uparrow	I	L	L
	L	\uparrow	h	Н	Н
Load register and disable outputs	Н	\uparrow	I	L	Z
	Н	↑	h	Н	Z

^[1] H = HIGH voltage level

h = HIGH voltage level one set-up time prior to the LOW to HIGH CP transition

I = LOW voltage level one set-up time prior to the LOW to HIGH CP 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_{CC}	supply voltage		-0.5	+6.5	V
I _{IK}	input clamping current	V _I < 0	-50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$	-	±50	mA
Vo	output voltage	output HIGH or LOW state	[<u>2</u>] -0.5	$V_{CC} + 0.5$	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
I _{CC}	supply current		-	100	mA
I _{GND}	ground current		-100	-	mA
T _{stg}	storage temperature		−65	+150	°C
P _{tot}	total power dissipation	T_{amb} = -40 °C to +125 °C	[3] _	500	mW

^[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

L = LOW voltage level

^{↑ =} LOW to HIGH clock transition

Z = high-impedance OFF-state

^[2] The output voltage ratings may be exceeded if the output current ratings are observed.

^[3] For SO20 packages: above 70 °C the value of P_{tot} derates linearly with 8 mW/K.
For (T)SSOP20 packages: above 60 °C the value of P_{tot} derates linearly with 5.5 mW/K.
For DHVQFN20 packages: above 60 °C the value of P_{tot} derates linearly with 4.5 mW/K.

Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V_{CC}	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_{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	$V_{CC} = 1.65 \text{ V to } 2.7 \text{ V}$	0	-	20	ns/V
		V _{CC} = 2.7 V to 3.6 V	0	-	10	ns/V

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 +8	85 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 1.2 V	1.08	-	-	1.08	-	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7	-	-	1.7	-	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2.0	-	-	2.0	-	V
V_{IL}	LOW-level	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = -100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	V _{CC} - 0.2	-	-	V _{CC} – 0.3	-	V
		$I_O = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	V
		$I_{O} = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	2.25	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	V
V_{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	-	-	0.2	-	0.3	V
		$I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.65	V
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		$I_O = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	0.8	V
l _l	input leakage current	$V_{CC} = 3.6 \text{ V}; V_I = 5.5 \text{ V or GND}$	-	±0.1	±5	-	±20	μΑ

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Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

Table 6. Static characteristics ...continued

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

Symbol	Parameter	Conditions	-40	°C to +85	°C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 3.6$ V; $V_O = 5.5$ V or GND;	-	0.1	±10	-	±20	μΑ
I _{OFF}	power-off leakage supply	$V_{CC} = 0 \text{ V}; V_1 \text{ or } V_0 = 5.5 \text{ V}$	-	0.1	±10	-	±20	μΑ
I _{CC}	supply current	V_{CC} = 3.6 V; V_{I} = V_{CC} or GND; I_{O} = 0 A	-	0.1	10	-	40	μА
ΔI_{CC}	additional supply current	per input pin; V_{CC} = 2.7 V to 3.6 V; V_I = V_{CC} - 0.6 V; I_O = 0 A	-	5	500	-	5000	μΑ
Cı	input capacitance	$V_{CC} = 0 \text{ V to } 3.6 \text{ V};$ $V_I = \text{GND to } V_{CC}$	-	5.0	-	-	-	pF

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 10.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation	CP to Qn; see Figure 7	[2]						
	delay	V _{CC} = 1.2 V		-	17.0	-	-	-	ns
		V_{CC} = 1.65 V to 1.95 V		4.6	6.4	13.1	4.6	15.1	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.6	3.9	7.9	2.6	9.1	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.7	8.0	1.5	10.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	3.5	7.0	1.5	9.0	ns
t _{en}	enable time	OE to Qn; see Figure 9	[2]						
		V _{CC} = 1.2 V		-	19.0	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.5	7.0	17.1	1.5	19.8	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.5	4.0	9.4	1.5	10.9	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	4.1	8.5	1.5	11.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	3.2	7.5	1.5	9.5	ns
t _{dis}	disable time	OE to Qn; see Figure 9	[2]						
		V _{CC} = 1.2 V		-	9.0	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		2.5	4.1	10.1	2.5	11.6	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	2.3	5.7	1.0	6.6	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.1	6.5	1.5	8.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	2.9	6.0	1.5	7.5	ns

Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

 Table 7.
 Dynamic characteristics ...continued

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 10.

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t _W	pulse width	clock HIGH or LOW; see Figure 7						1	
		V _{CC} = 1.65 V to 1.95 V		5.0	-	-	5.0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		4.0	-	-	4.0	-	ns
		V _{CC} = 2.7 V		3.3	-	-	3.3	-	ns
		V _{CC} = 3.0 V to 3.6 V		3.3	1.7	-	3.3	-	ns
t _{su}	set-up time	Dn to CP; see Figure 8							
		V _{CC} = 1.65 V to 1.95 V		4.0	-	-	4.0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.5	-	-	2.5	-	ns
		V _{CC} = 2.7 V		2.0	-	-	2.0	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		2.0	0.3	-	2.0	-	ns
t _h	hold time	Dn to CP; see Figure 8							
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		3.0	-	-	3.0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.0	-	-	2.0	-	ns
		V _{CC} = 2.7 V		1.5	-	-	1.5	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		+1.5	-0.2	-	+1.5	-	ns
f _{max}	maximum	see Figure 7							
	frequency	V _{CC} = 1.65 V to 1.95 V		100	-	-	80	-	MH:
		V _{CC} = 2.3 V to 2.7 V		125	-	-	100	-	MH:
		V _{CC} = 2.7 V		150	-	-	120	-	MH
		V _{CC} = 3.0 V to 3.6 V		150	200	-	120	-	MH:
t _{sk(0)}	output skew time	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	[3]	-	-	1.0	-	1.5	ns
C _{PD}	power dissipation	per flip-flop; $V_I = GND$ to V_{CC}	<u>[4]</u>						
	capacitance	V _{CC} = 1.65 V to 1.95 V		-	11.2	-	-	-	pF
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	13.2	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	14.9	-	-	-	pF

^[1] 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.

[4] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

 f_i = input frequency in MHz; f_o = output frequency in MHz

 C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

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

^[2] t_{pd} is the same as t_{PLH} and t_{PHL} .

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

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

^[3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

11. AC waveforms

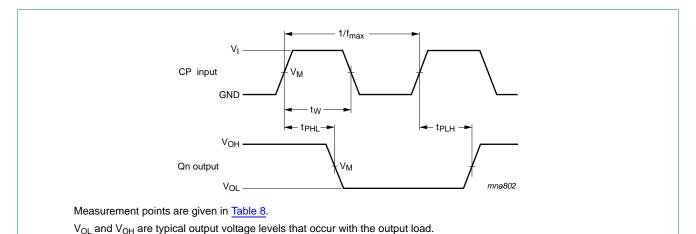
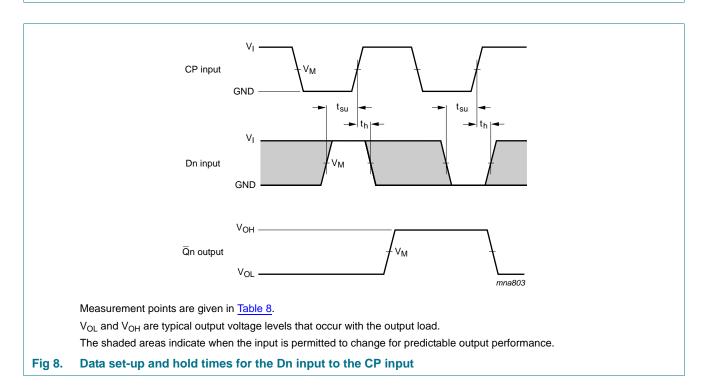


Fig 7. Clock (CP) to output (Qn) propagation delays, the clock pulse width, output transition times, and the maximum frequency



Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

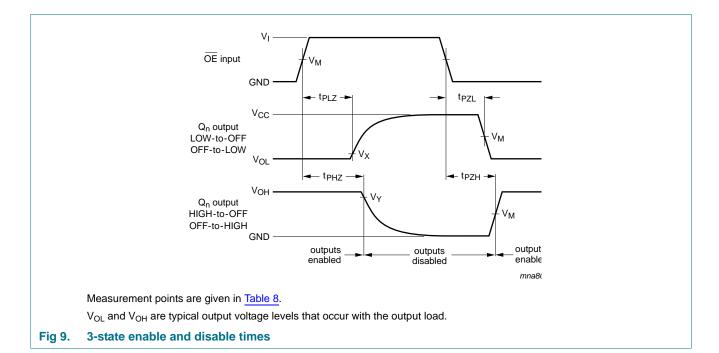
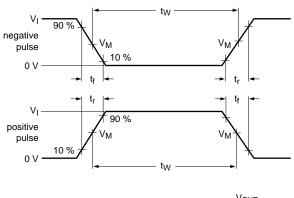
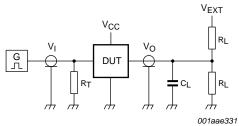


Table 8. Measurement points

Supply voltage	Input		Output			
V _{CC}	VI	V _M	V _M	V _X	V _Y	
1.2 V	V _{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	$V_{OH}-0.15\ V$	
1.65 V to 1.95 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	$V_{OH}-0.15\ V$	
2.3 V to 2.7 V	V _{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	V _{OH} – 0.15 V	
2.7 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	$V_{OH} - 0.3 V$	
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	$V_{OH} - 0.3 V$	

Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state





Test data is given in Table 9.

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_0 of the pulse generator.

V_{EXT} = External voltage for measuring switching times.

Fig 10. Test circuitry for measuring switching times

Table 9. Test data

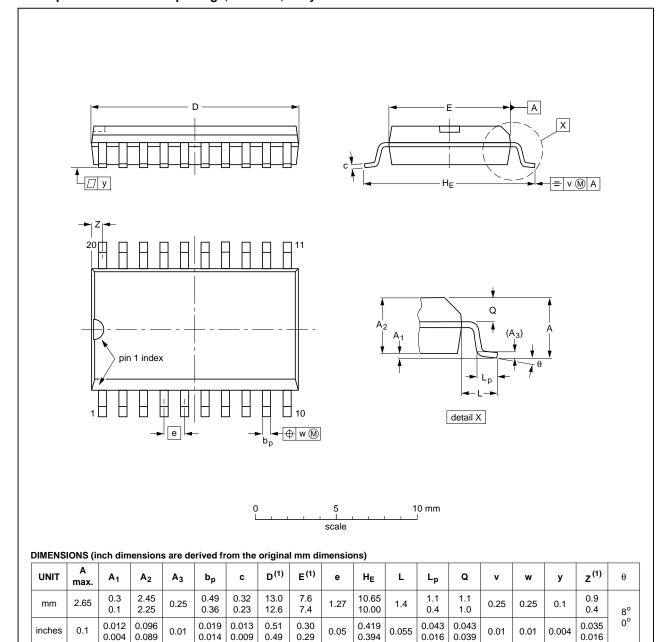
Supply voltage	Input	Input		Load		V _{EXT}		
	VI	t _r , t _f	CL	R_L	t _{PLH} , t _{PHL}	t_{PLZ}, t_{PZL}	t _{PHZ} , t _{PZH}	
1.2 V	V_{CC}	≤ 2 ns	30 pF	1 k Ω	open	$2\times V_{CC}$	GND	
1.65 V to 1.95 V	V_{CC}	≤ 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND	
2.3 V to 2.7 V	V_{CC}	≤ 2 ns	30 pF	500Ω	open	$2\times V_{CC}$	GND	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND	

Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

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	ICCUIT DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT163-1	075E04	MS-013				99-12-27 03-02-19	

Fig 11. Package outline SOT163-1 (SO20)

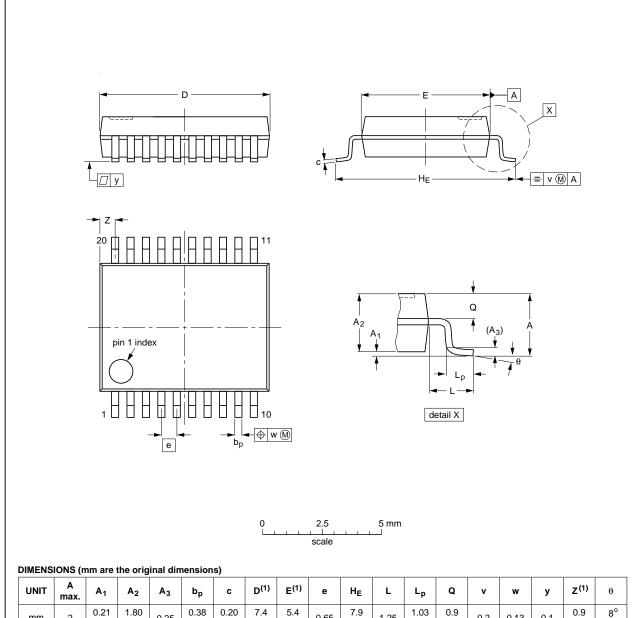
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Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

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

SOT339-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	e	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	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				99-12-27 03-02-19	

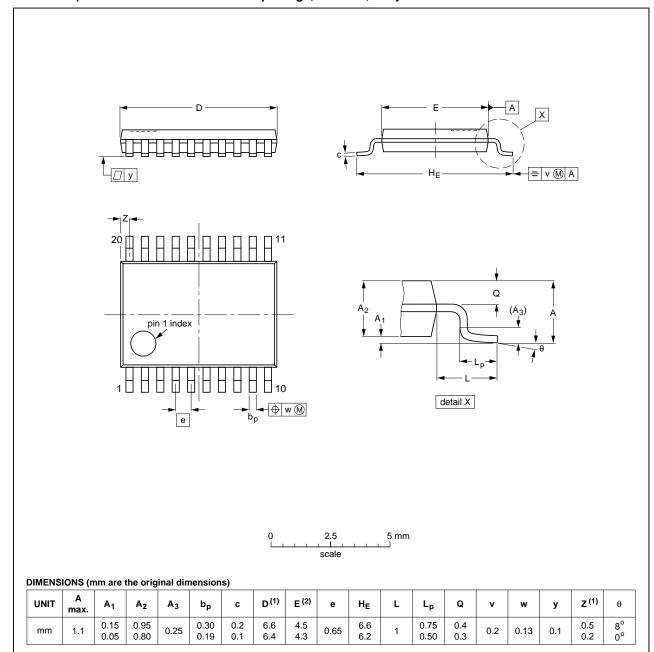
Fig 12. Package outline SOT339-1 (SSOP20)

74LVC574A

Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

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

SOT360-1



- 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	ISSUE DATE
SOT360-1		MO-153				99-12-27 03-02-19
•						

Fig 13. Package outline SOT360-1 (TSSOP20)

74LVC574A

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Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

DHVQFN20: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 20 terminals; body 2.5 x 4.5 x 0.85 mm SOT764-1

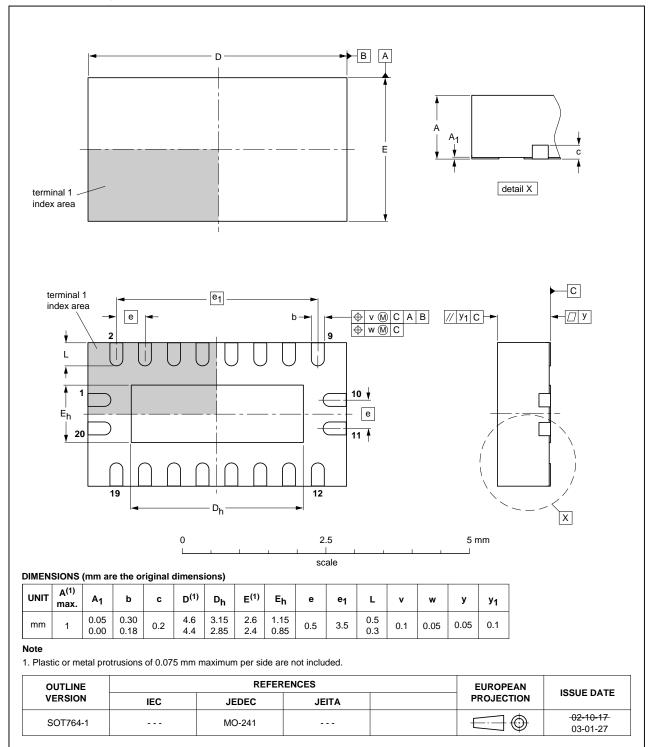


Fig 14. Package outline SOT764-1 (DHVQFN20)

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Octal D-type flip-flop; 5 V tolerance; positive edge-trigger; 3-state

13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
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 IDRelease dateData sheet statusChange noticeSupersedes74LVC574A v.520121218Product data sheet-74LVC574A v.4Modifications:• Changed interlacing into interfacing (errata) in features list.74LVC574A v.420121203Product data sheet-74LVC574A v.3Modifications:• The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.• Legal texts have been adapted to the new company name where appropriate.• Legal texts have been adapted to the new company name where appropriate.• Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage range.74LVC574A v.320040322Product specification-74LVC574A v.274LVC574A v.220030620Product specification-74LVC574A v.174LVC574A v.119980729Product specification					
Modifications: • Changed interlacing into interfacing (errata) in features list. 74LVC574A v.4 20121203 • Product data sheet - 74LVC574A v.3 Modifications: • The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. • Legal texts have been adapted to the new company name where appropriate. • Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage ranges 74LVC574A v.3 74LVC574A v.2 74LVC574A v.2 74LVC574A v.2	Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC574A v.4 20121203 Product data sheet - 74LVC574A v.3 Modifications: The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where appropriate. Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage ranges 74LVC574A v.3 74LVC574A v.2 74LVC574A v.2 74LVC574A v.2	74LVC574A v.5	20121218	Product data sheet	-	74LVC574A v.4
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of NXP Semiconductors. • Legal texts have been adapted to the new company name where appropriate. • Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage ranges 74LVC574A v.3 74LVC574A v.2 74LVC574A v.2 74LVC574A v.2	74LVC574A v.4	20121203	Product data sheet	-	74LVC574A v.3
Table 4, Table 5, Table 6, Table 7, Table 8 and Table 9: values added for lower voltage range74LVC574A v.320040322Product specification -74LVC574A v.274LVC574A v.220030620Product specification -74LVC574A v.1	Modifications:			lesigned to comply with	n the new identity guidelines
74LVC574A v.3 20040322 Product specification - 74LVC574A v.2 74LVC574A v.2 20030620 Product specification - 74LVC574A v.1		 Legal texts have 	ve been adapted to the new	company name where	appropriate.
74LVC574A v.2 20030620 Product specification - 74LVC574A v.1		• Table 4, Table	5, <u>Table 6</u> , <u>Table 7</u> , <u>Table 8</u>	and <u>Table 9</u> : values ad	ded for lower voltage ranges.
	74LVC574A v.3	20040322	Product specification	-	74LVC574A v.2
74LVC574A v.1 19980729 Product specification	74LVC574A v.2	20030620	Product specification	-	74LVC574A v.1
	74LVC574A v.1	19980729	Product specification	-	-

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Document status[1][2]	Product status[3]	Definition
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- [2] The term 'short data sheet' is explained in section "Definitions"
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