# 74LVC1G79

# Single D-type flip-flop; positive-edge trigger Rev. 12 — 5 December 2016

**Product data sheet** 

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

The 74LVC1G79 provides a single positive-edge triggered D-type flip-flop.

Information on the data input is transferred to the Q-output on the LOW-to-HIGH transition of the clock pulse. The D-input must be stable one set-up time prior to the LOW-to-HIGH clock transition for predictable operation.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment.

This device is fully specified for partial power-down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

#### **Features and benefits** 2.

- Wide supply voltage range from 1.65 V to 5.5 V
- High noise immunity
- Complies with JEDEC standard:
  - ◆ JESD8-7 (1.65 V to 1.95 V)
  - ◆ JESD8-5 (2.3 V to 2.7 V)
  - ◆ JESD8B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- $\pm$  24 mA output drive (V<sub>CC</sub> = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Inputs accept voltages up to 5 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C.



Single D-type flip-flop; positive-edge trigger

# 3. Ordering information

Table 1. Ordering information

Type number	Package						
	Temperature range	Name	Description	Version			
74LVC1G79GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1			
74LVC1G79GV	–40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753			
74LVC1G79GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886			
74LVC1G79GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body $1 \times 1 \times 0.5$ mm	SOT891			
74LVC1G79GN	−40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $0.9 \times 1.0 \times 0.35$ mm	SOT1115			
74LVC1G79GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $1.0 \times 1.0 \times 0.35$ mm	SOT1202			
74LVC1G79GX	-40 °C to +125 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8 \times 0.8 \times 0.35$ mm	SOT1226			

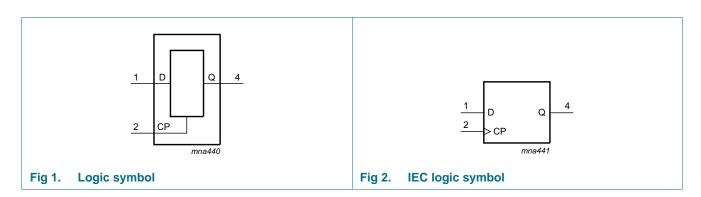
# 4. Marking

Table 2. Marking codes

Type number	Marking[1]
74LVC1G79GW	VP
74LVC1G79GV	V79
74LVC1G79GM	VP
74LVC1G79GF	VP
74LVC1G79GN	VP
74LVC1G79GS	VP
74LVC1G79GX	VP

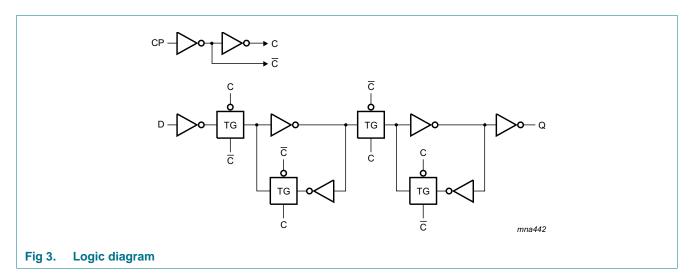
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 5. Functional diagram



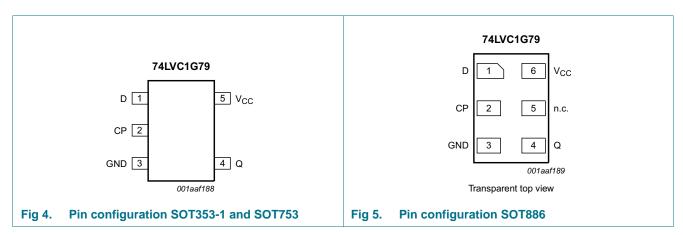
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# 6. Pinning information

### 6.1 Pinning





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# 6.2 Pin description

Table 3. Pin description

Symbol	Pin		Description
	TSSOP5 and X2SON5	XSON6	-
D	1	1	data input
СР	2	2	clock pulse input
GND	3	3	ground (0 V)
Q	4	4	data output
n.c.	-	5	not connected
V <sub>CC</sub>	5	6	supply voltage

# 7. Functional description

#### Table 4. Function table[1]

Input D		Output
СР	D	Q
$\uparrow$	L	L
$\uparrow$	Н	Н
L	X	q

[1] H = HIGH voltage level;

L = LOW voltage level;

 $\uparrow$  = LOW-to-HIGH CP transition;

X = don't care;

q = lower case letter indicates the state of referenced input, one set-up time prior to the LOW-to-HIGH CP transition.

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# 8. Limiting values

Table 5. 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 V	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_O > V_{CC}$ or $V_O < 0 \text{ V}$	-	±50	mA
Vo	output voltage	Active mode [1][2]	-0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode [1][2]	-0.5	+6.5	V
Io	output current	$V_O = 0 \text{ V to } V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C to } +125  ^{\circ}\text{C}$	-	250	mW
T <sub>stg</sub>	storage temperature		-65	+150	°C

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

# 9. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	Active mode	0	-	V <sub>CC</sub>	V
		V <sub>CC</sub> = 0 V; Power-down mode	0	-	5.5	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.7 V	-	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 5.5 V	-	-	10	ns/V

<sup>[2]</sup> When  $V_{CC} = 0 \text{ V}$  (Power-down mode), the output voltage can be 5.5 V in normal operation.

<sup>[3]</sup> For TSSOP5 and SC-74A packages: above 87.5 °C the value of P<sub>tot</sub> derates linearly with 4.0 mW/K. For XSON6 and X2SON5 packages: above 118 °C the value of P<sub>tot</sub> derates linearly with 7.8 mW/K.

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# 10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
T <sub>amb</sub> = -	40 °C to +85 °C					
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	$0.7 \times V_{CC}$	-	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	$0.3 \times V_{CC}$	V
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{IH}$ or $V_{IL}$				
		$I_O = -100 \mu A$ ; $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	V <sub>CC</sub> - 0.1	-	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	-	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.3	-	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	-	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_I = V_{IH}$ or $V_{IL}$				
		$I_O = 100 \mu A$ ; $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	-	0.1	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.3	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.4	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.55	٧
I <sub>I</sub>	input leakage current	$V_{I} = 5.5 \text{ V or GND}; V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	±0.1	±1	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	±2	μΑ
I <sub>CC</sub>	supply current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = 0 A	-	0.1	4	μΑ
Δl <sub>CC</sub>	additional supply current	per pin; $V_{CC} = 2.3 \text{ V to } 5.5 \text{ V};$ $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}$	-	5	500	μΑ
Cı	input capacitance	$V_{CC} = 3.3 \text{ V}$ ; $V_I = \text{GND to } V_{CC}$	-	5	-	pF
T <sub>amb</sub> = -	40 °C to +125 °C					
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 × V <sub>CC</sub>	-	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.7 × V <sub>CC</sub>	-	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35 × V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.3 × V <sub>CC</sub>	V

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# Single D-type flip-flop; positive-edge trigger

 Table 7.
 Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{IH}$ or $V_{IL}$				
		$I_{O} = -100 \mu A$ ; $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	V <sub>CC</sub> - 0.1	-	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	0.95	-	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.7	-	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	1.9	-	-	V
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.0	-	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.4	-	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_I = V_{IH}$ or $V_{IL}$				
		$I_O = 100 \ \mu A; \ V_{CC} = 1.65 \ V \ to \ 5.5 \ V$	-	-	0.1	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.70	V
		$I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.45	V
		$I_{O} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.60	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.80	V
		$I_{O} = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.80	V
I <sub>I</sub>	input leakage current	$V_I = 5.5 \text{ V or GND}$ ; $V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	±1	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	-	±2	μΑ
I <sub>CC</sub>	supply current	$V_{I} = 5.5 \text{ V or GND};$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}; I_{O} = 0 \text{ A}$	-	-	4	μА
$\Delta I_{CC}$	additional supply current	per pin; $V_{CC} = 2.3 \text{ V to } 5.5 \text{ V};$ $V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}$	-	-	500	μА

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

# 11. Dynamic characteristics

Table 8. Dynamic characteristics

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

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	CP to Q; see Figure 8						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3.6	9.9	1.0	12.5	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	2.3	7.0	0.5	9.0	ns
		V <sub>CC</sub> = 2.7 V	0.5	2.6	6.0	0.5	8.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	2.2	5.0	0.5	6.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.5	1.7	3.8	0.5	5.0	ns
t <sub>su</sub>	set-up time	D to CP; see Figure 9						
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.5	1.4	-	2.5	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	0.9	-	1.7	-	ns
		V <sub>CC</sub> = 2.7 V	1.7	0.9	-	1.7	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.3	0.6	-	1.2	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.2	0.6	-	1.2	-	ns

### Single D-type flip-flop; positive-edge trigger

 Table 8.
 Dynamic characteristics ...continued

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

Symbol	Parameter	Conditions	-40	–40 °C to +85 °C			-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	
t <sub>h</sub>	hold time	D to CP; see Figure 9						
		V <sub>CC</sub> = 1.65 V to 1.95 V	0	-0.7	-	0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	0	-0.4	-	0	-	ns
		V <sub>CC</sub> = 2.7 V	+0.5	-0.3	-	0.5	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	+0.5	-0.3	-	0.5	-	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	+0.5	-0.2	-	0.5	-	ns
t <sub>W</sub>	pulse width	CP HIGH or LOW; see Figure 9						
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	1.1	-	3.0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	2.5	0.7	-	2.5	-	ns
		V <sub>CC</sub> = 2.7 V	2.5	0.6	-	2.5	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	2.5	0.6	-	2.5	-	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	2.0	0.5	-	2.0	-	ns
f <sub>max</sub>	maximum	CP; see Figure 9						
	frequency	V <sub>CC</sub> = 1.65 V to 1.95 V	160	250	-	160	-	MHz
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	160	300	-	160	-	MHz
		V <sub>CC</sub> = 2.7 V	160	350	-	160	-	MHz
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	160	450	-	160	-	MHz
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	200	500	-	200	-	MHz
C <sub>PD</sub>	power dissipation capacitance	$V_I = GND \text{ to } V_{CC};$ [3] $V_{CC} = 3.3 \text{ V}$	-	17	-	-	-	pF

<sup>[1]</sup> Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

[3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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

 $f_i$  = input frequency in MHz;

 $f_o$  = output frequency in MHz;

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

 $V_{CC}$  = supply voltage in V;

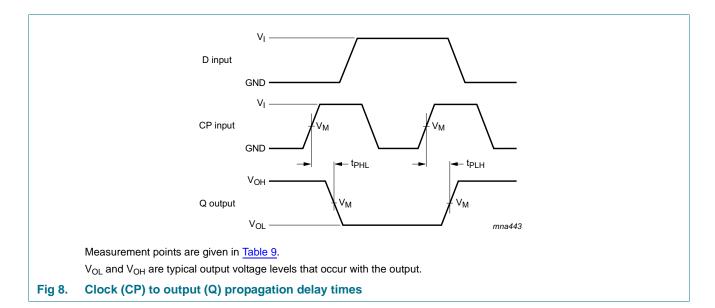
N = number of inputs switching;

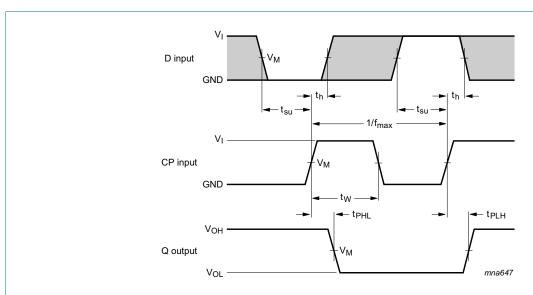
 $\sum (C_L \times V_{CC}^2 \times f_o) = \text{sum of outputs.}$ 

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

Single D-type flip-flop; positive-edge trigger

# 12. Waveforms





Measurement points are given in Table 9.

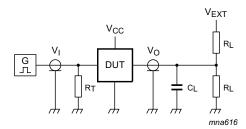
 $V_{OL}$  and  $V_{OH}$  are typical output voltage levels that occur with the output.

Fig 9. Clock (CP) to output (Q) propagation delay times, clock pulse width, D to set-up times, the CP to D hold times and maximum clock pulse frequency

### Single D-type flip-flop; positive-edge trigger

Table 9. Measurement points

Supply voltage	Input	Output
V <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>
1.65 V to 1.95 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
2.3 V to 2.7 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
2.7 V	1.5 V	1.5 V
3.0 V to 3.6 V	1.5 V	1.5 V
4.5 V to 5.5 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$



Test data is given in Table 10.

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 the output impedance  $Z_0$  of the pulse generator.

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

Fig 10. Test circuit for measuring switching times

Table 10. Test data

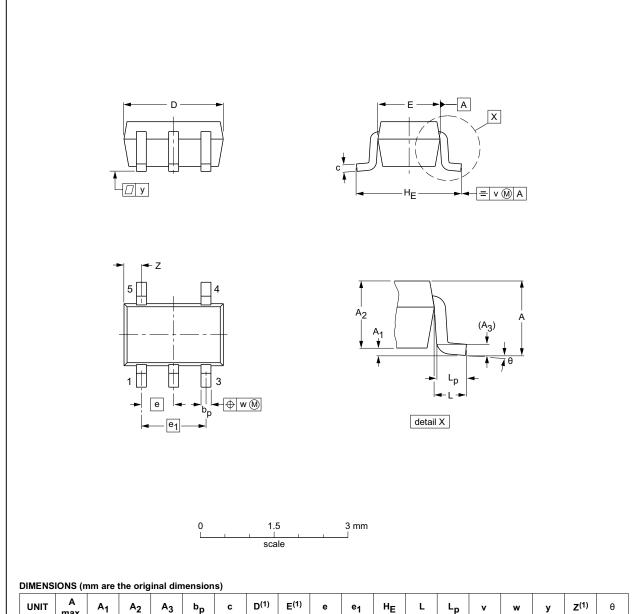
Supply voltage	Input		Load		V <sub>EXT</sub>
V <sub>CC</sub>	Vı	$t_r = t_f$	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open

### Single D-type flip-flop; positive-edge trigger

# 13. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1



UNIT	A max.	A <sub>1</sub>	A <sub>2</sub>	А3	bp	С	D <sup>(1)</sup>	E <sup>(1)</sup>	е	e <sub>1</sub>	HE	L	Lp	v	w	у	Z <sup>(1)</sup>	θ
mm	1.1	0.1 0	1.0 0.8	0.15	0.30 0.15	0.25 0.08	2.25 1.85	1.35 1.15	0.65	1.3	2.25 2.0	0.425	0.46 0.21	0.3	0.1	0.1	0.60 0.15	7° 0°

#### Note

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT353-1		MO-203	SC-88A			<del>-00-09-01-</del> 03-02-19	

Fig 11. Package outline SOT353-1 (TSSOP5)

74LVC1G7

# Single D-type flip-flop; positive-edge trigger

# Plastic surface-mounted package; 5 leads

**SOT753** 

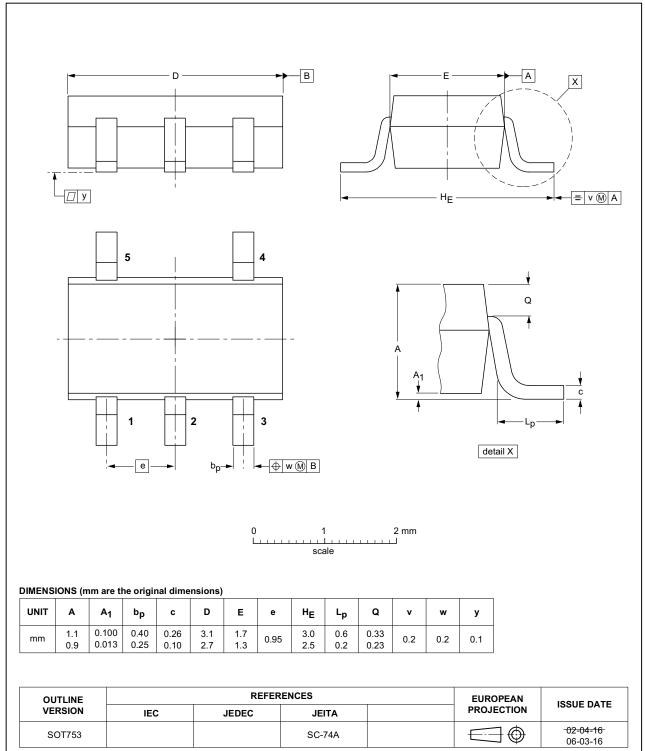


Fig 12. Package outline SOT753 (SC-74A)

74LVC1G79

Single D-type flip-flop; positive-edge trigger

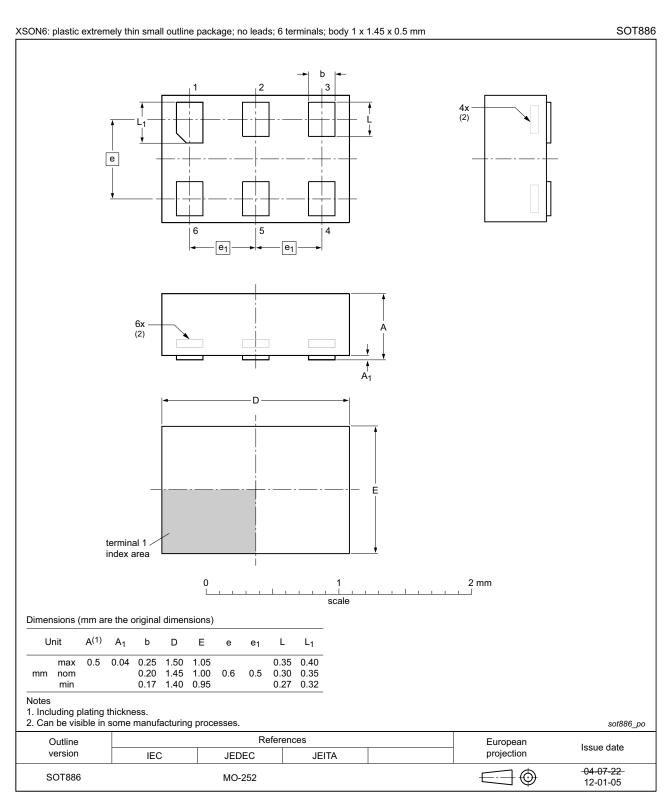


Fig 13. Package outline SOT886 (XSON6)

Single D-type flip-flop; positive-edge trigger

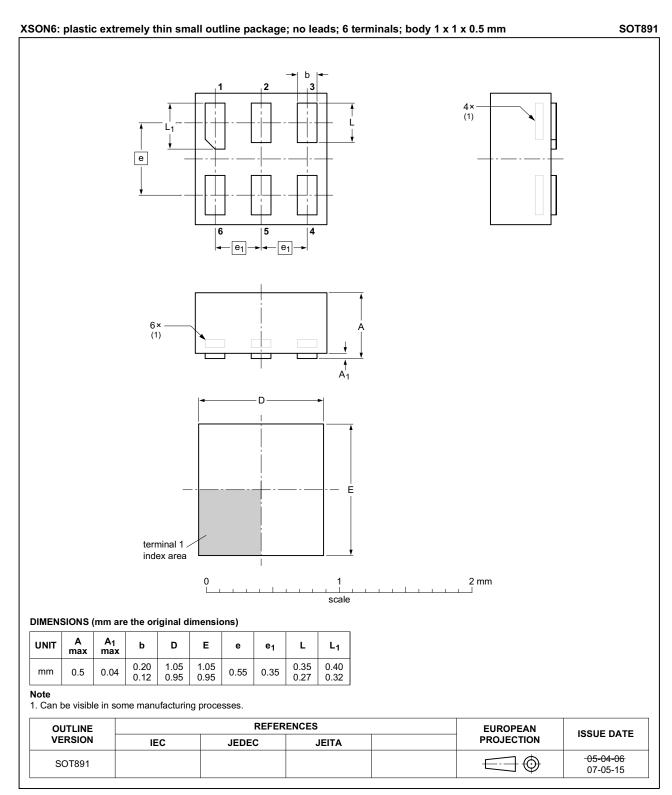


Fig 14. Package outline SOT891 (XSON6)

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Single D-type flip-flop; positive-edge trigger

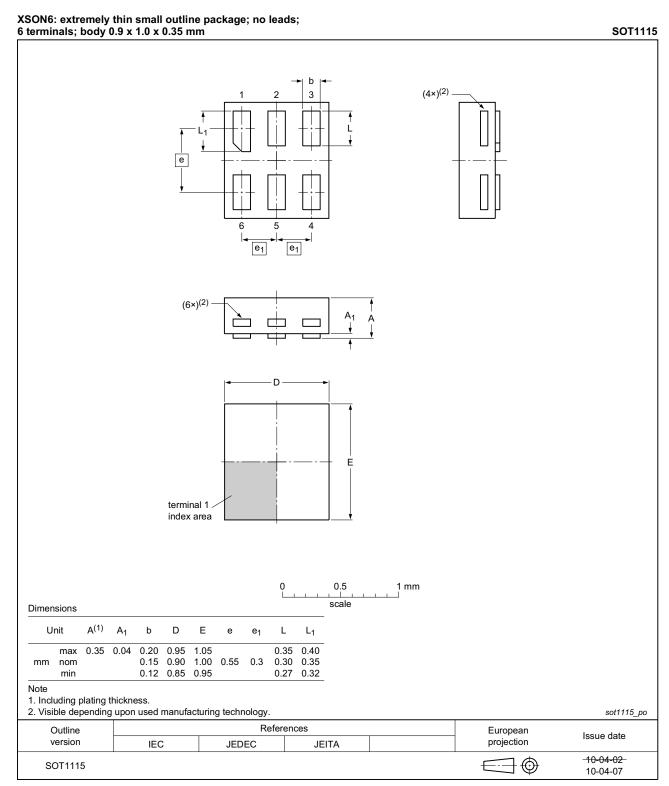


Fig 15. Package outline SOT1115 (XSON6)

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### Single D-type flip-flop; positive-edge trigger

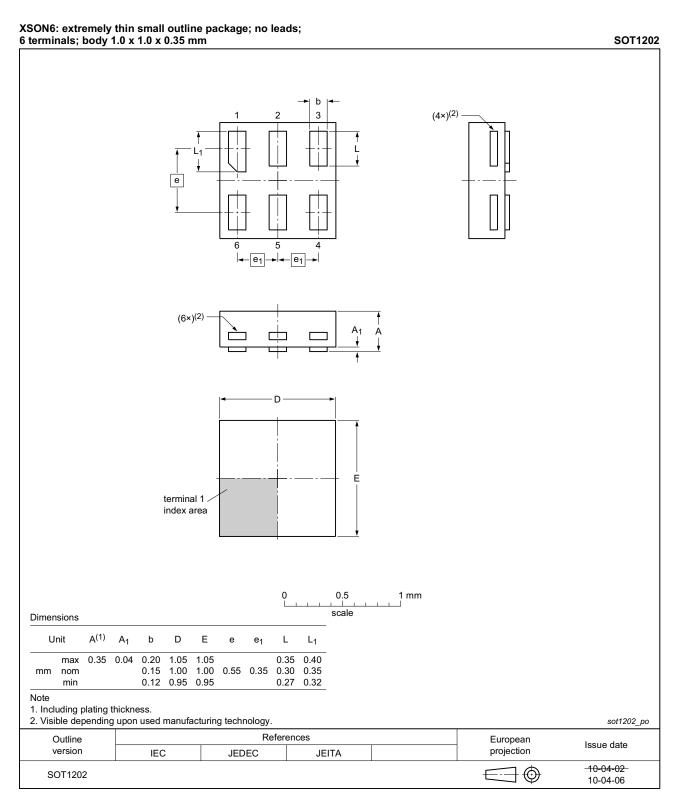


Fig 16. Package outline SOT1202 (XSON6)

### Single D-type flip-flop; positive-edge trigger

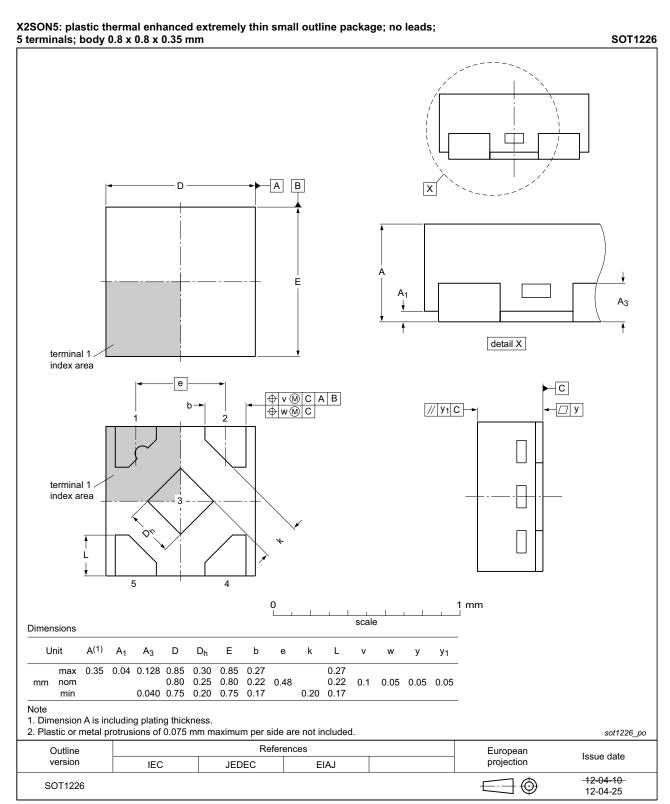


Fig 17. Package outline SOT1226 (X2SON5)

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# Single D-type flip-flop; positive-edge trigger

# 14. Abbreviations

### Table 11. Abbreviations

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

# 15. Revision history

### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G79 v.12	20161205	Product data sheet	-	74LVC1G79 v.11
Modifications:	• Table 7: The r	maximum limits for leakage cu	rrent and supply cur	rent have changed.
74LVC1G79 v.11	20120702	Product data sheet	-	74LVC1G79 v.10
Modifications:	Added type no	umber 74LVC1G79GX (SOT12	226)	
74LVC1G79 v.10	20120402	Product data sheet	-	74LVC1G79 v.9
Modifications:	<ul> <li>Errata in tabe</li> </ul>	3 corrected (description CP in	nput).	
74LVC1G79 v.9	20111202	Product data sheet	-	74LVC1G79 v.8
Modifications:	• Legal pages u	ipdated.		
74LVC1G79 v.8	20100930	Product data sheet	-	74LVC1G79 v.7
74LVC1G79 v.7	20070829	Product data sheet	-	74LVC1G79 v.6
74LVC1G79 v.6	20061009	Product data sheet	-	74LVC1G79 v.5
74LVC1G79 v.5	20040910	Product specification	-	74LVC1G79 v.4
74LVC1G79 v.4	20040317	Product specification	-	74LVC1G79 v.3
74LVC1G79 v.3	20030516	Product specification	-	74LVC1G79 v.2
74LVC1G79 v.2 20030130		Product specification	-	74LVC1G79 v.1
74LVC1G79 v.1	20010404	Product specification	-	-

#### Single D-type flip-flop; positive-edge trigger

# 16. Legal information

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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.nexperia.com.

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# Single D-type flip-flop; positive-edge trigger

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