# 74LVC1G79

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

Rev. 15 — 18 August 2023 Product data sheet

## 1. General description

The 74LVC1G79 is a single positive-edge triggered D-type flip-flop. Data at the D-input that meets the set-up and hold time requirements on the LOW-to-HIGH clock transition will be stored in the flip-flop and appear at the Q output. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

## 2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- · CMOS low power dissipation
- ±24 mA output drive (V<sub>CC</sub> = 3.0 V)
- · Direct interface with TTL levels
- · Latch-up performance exceeds 250 mA
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- · Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8C (2.7 V to 3.6 V)
  - JESD36 (4.5 V to 5.5 V)
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 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	<u>SOT886</u>
74LVC1G79GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115
74LVC1G79GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202
74LVC1G79GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.32 mm	SOT1226-3

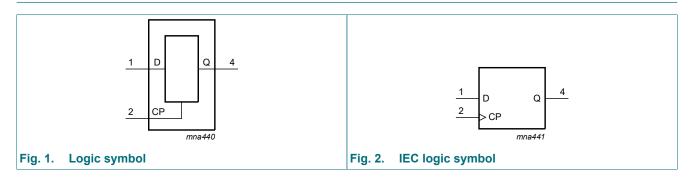
## 4. Marking

Table 2. Marking codes

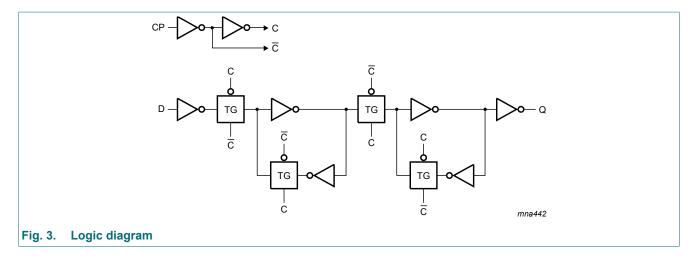
Table 2. Marking codes			
Type number	Marking[1]		
74LVC1G79GW	VP		
74LVC1G79GV	V79		
74LVC1G79GM	VP		
74LVC1G79GN	VP		
74LVC1G79GS	VP		
74LVC1G79GX	VP		

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

# 5. Functional diagram

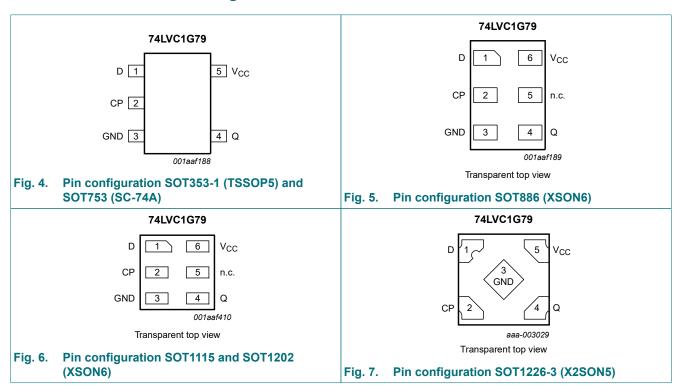


## Single D-type flip-flop; positive-edge trigger



# 6. Pinning information

## 6.1. Pinning



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

## 6.2. Pin description

Table 3. Pin description

Symbol	Pin	Pin		
	TSSOP5, SC-74A and X2SON5	XSON6		
D	1	1	data input	
CP	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**

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ \uparrow = LOW-to-HIGH \ CP \ transition; \ X = don't \ care; \ q = lower \ case \ letter \ indicates \ the \ state \ of \ referenced \ input, \ one \ set-up \ time \ prior \ to \ the \ LOW-to-HIGH \ CP \ transition.$ 

Input D		Output
СР	D	Q
<b>↑</b>	L	L
$\uparrow$	Н	Н
L	X	q

4 / 19

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

## 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 $V_O < 0 V$		-	±50	mA
Vo	output voltage	Active mode	[1]	-0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode; V <sub>CC</sub> = 0 V	[1]	-0.5	+6.5	V
Io	output current	V <sub>O</sub> = 0 V to V <sub>CC</sub>		-	±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 <sub>amb</sub> = -40 °C to +125 °C	[2]	-	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.

For SOT753 (SC-74A) package: P<sub>tot</sub> derates linearly with 3.8 mW/K above 85 °C.

For SOT886 (XSON6) package:  $P_{tot}$  derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package:  $P_{tot}$  derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package:  $P_{tot}$  derates linearly with 3.3 mW/K above 74 °C.

For SOT1226-3 (X2SON5) package: Ptot derates linearly with 3.0 mW/K above 67 °C.

# 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
		Power-down mode; V <sub>CC</sub> = 0 V	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> For SOT353-1 (TSSOP5) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

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

## 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 × 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
V <sub>OH</sub>	HIGH-level output voltage	$V_I = V_{IH}$ or $V_{IL}$				
		I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	V <sub>CC</sub> - 0.1	-	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	1.9	-	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V	2.2	-	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.3	-	-	V
		I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V	3.8	-	-	V
V <sub>OL</sub>	LOW-level output voltage	$V_I = V_{IH}$ or $V_{IL}$				
		I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 5.5 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	V
l <sub>l</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	μA
Δl <sub>CC</sub>	additional supply current	per pin; V <sub>CC</sub> = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A	-	5	500	μΑ
Cı	input capacitance	$V_{CC}$ = 3.3 V; $V_I$ = GND to $V_{CC}$	-	5	-	pF

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
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
V <sub>OH</sub>	HIGH-level output voltage	$V_{I} = V_{IH}$ or $V_{IL}$				
		$I_{O}$ = -100 $\mu$ A; $V_{CC}$ = 1.65 V to 5.5 V	V <sub>CC</sub> - 0.1	-	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	0.95	-	-	V
		$I_{O}$ = -8 mA; $V_{CC}$ = 2.3 V	1.7	-	-	V
		$I_{O}$ = -12 mA; $V_{CC}$ = 2.7 V	1.9	-	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.0	-	-	V
		$I_{O}$ = -32 mA; $V_{CC}$ = 4.5 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 <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.45	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.60	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.80	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 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	μA
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 <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	-	-	4	μΑ
ΔI <sub>CC</sub>	additional supply current	per pin; V <sub>CC</sub> = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A	-	-	500	μΑ

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

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

# 11. Dynamic characteristics

**Table 8. Dynamic characteristics** 

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

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C			-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	1
t <sub>pd</sub>	propagation delay	CP to Q; see Fig. 8 [2]						
		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 Fig. 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
t <sub>h</sub>	hold time	D to CP; see Fig. 9						
		V <sub>CC</sub> = 1.65 V to 1.95 V	0	-0.7	-	0	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0	-0.4	-	0	-	ns
		V <sub>CC</sub> = 2.7 V	+0.5	-0.3	-	0.5	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	+0.5	-0.3	-	0.5	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	+0.5	-0.2	-	0.5	-	ns
t <sub>W</sub>	pulse width	CP HIGH or LOW; see Fig. 9						
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	1.1	-	3.0	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.5	0.7	-	2.5	-	ns
		V <sub>CC</sub> = 2.7 V	2.5	0.6	-	2.5	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.5	0.6	-	2.5	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	0.5	-	2.0	-	ns
f <sub>max</sub>	maximum	CP; see Fig. 9						
	frequency	V <sub>CC</sub> = 1.65 V to 1.95 V	160	250	-	160	-	MHz
		V <sub>CC</sub> = 2.3 V to 2.7 V	160	300	-	160	-	MHz
		V <sub>CC</sub> = 2.7 V	160	350	-	160	-	MHz
		V <sub>CC</sub> = 3.0 V to 3.6 V	160	450	-	160	-	MHz
		V <sub>CC</sub> = 4.5 V to 5.5 V	200	500	-	200	-	MHz
C <sub>PD</sub>	power dissipation capacitance	$V_{I} = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3]	-	17	-	-	-	pF

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.

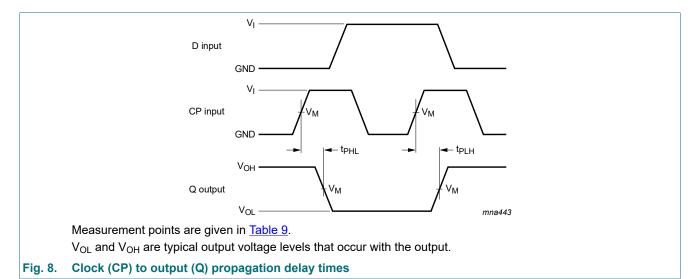
 $t_{pd}$  is the same as  $t_{pLH}$  and  $t_{pHL}$ .  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$  where:

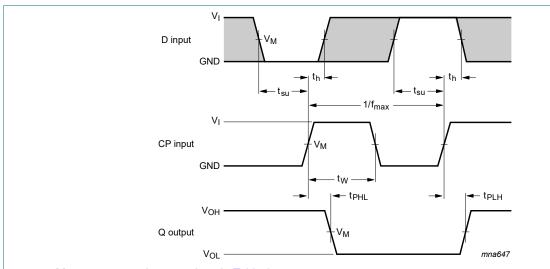
 $f_i$  = input frequency in MHz;  $f_o$  = output frequency in MHz;  $C_L$  = output load capacitance in pF;

 $V_{CC}$  = supply voltage in V; N = number of inputs switching;  $\sum (C_L \times V_{CC}^2 \times f_o)$  = sum of outputs.

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

#### 11.1. Waveforms and test circuit





Measurement points are given in <u>Table 9</u>.

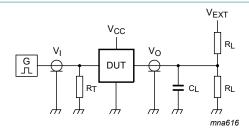
 $\ensuremath{V_{\text{OL}}}$  and  $\ensuremath{V_{\text{OH}}}$  are typical output voltage levels that occur with the output.

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

Table 9. Measurement points

Supply voltage	Input	Output
V <sub>CC</sub>	$V_{M}$	V <sub>M</sub>
1.65 V to 1.95 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>
2.3 V to 2.7 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>
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 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>

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



Test data is given in Table 10.

Definitions for test circuit:

 $R_L$  = Load resistance.

 $\ensuremath{C_L}$  = Load capacitance including jig and probe capacitance.

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

 $V_{\text{EXT}}$  = 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>	V <sub>I</sub>	$t_r = t_f$	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

10 / 19

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

# 12. Package outline

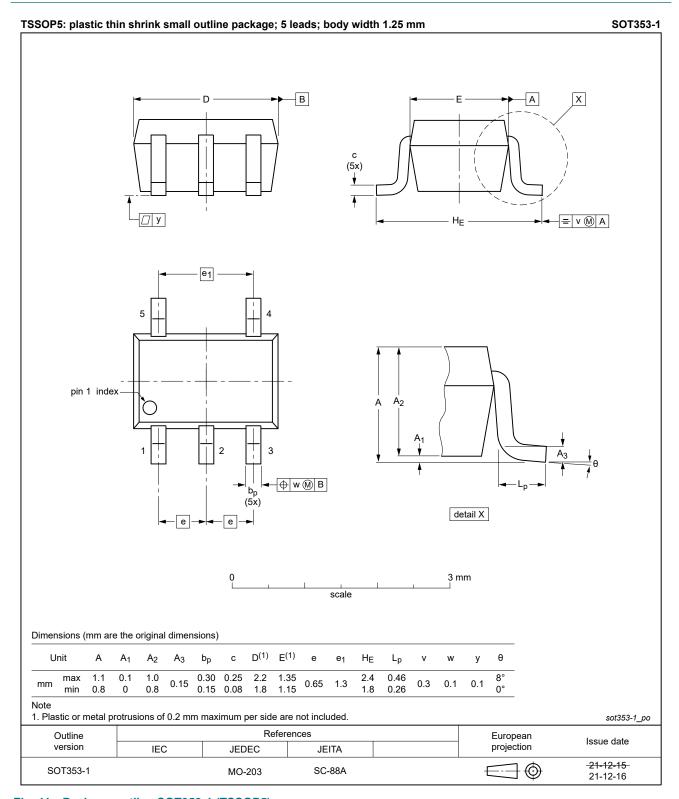


Fig. 11. Package outline SOT353-1 (TSSOP5)

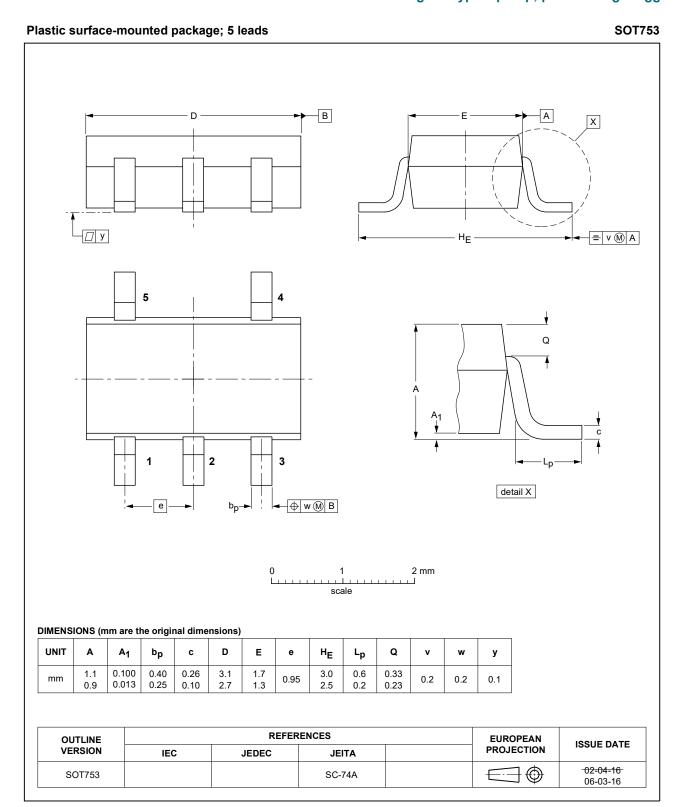


Fig. 12. Package outline SOT753 (SC-74A)

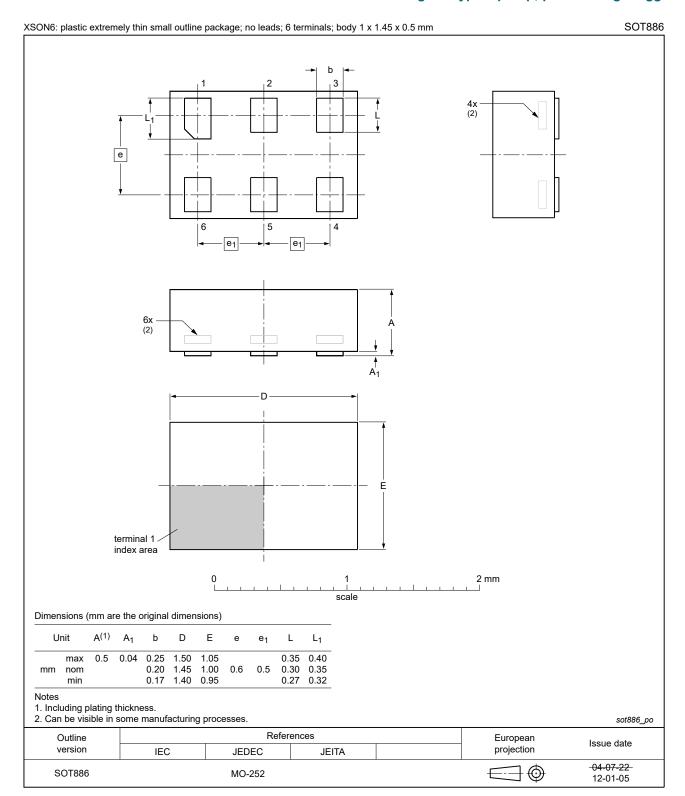


Fig. 13. Package outline SOT886 (XSON6)

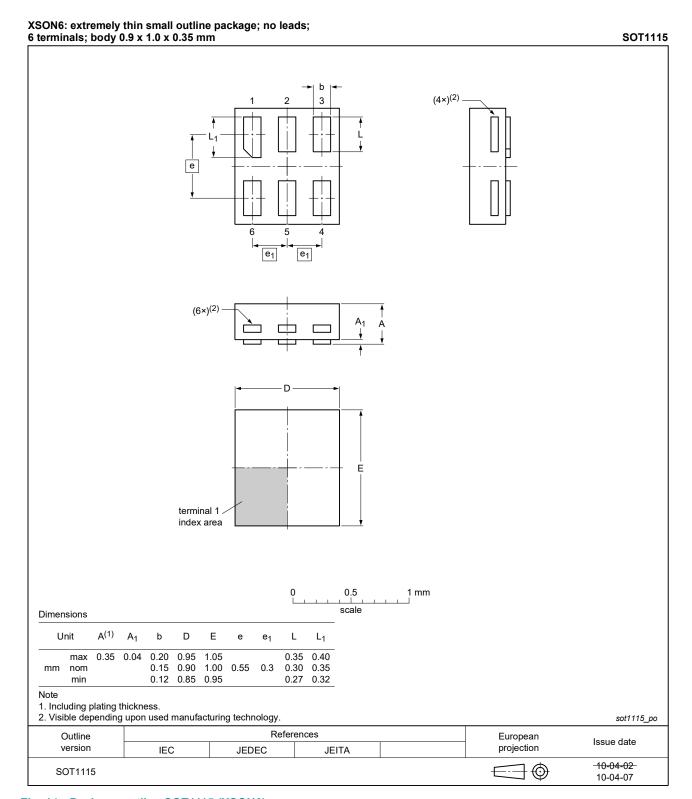


Fig. 14. Package outline SOT1115 (XSON6)

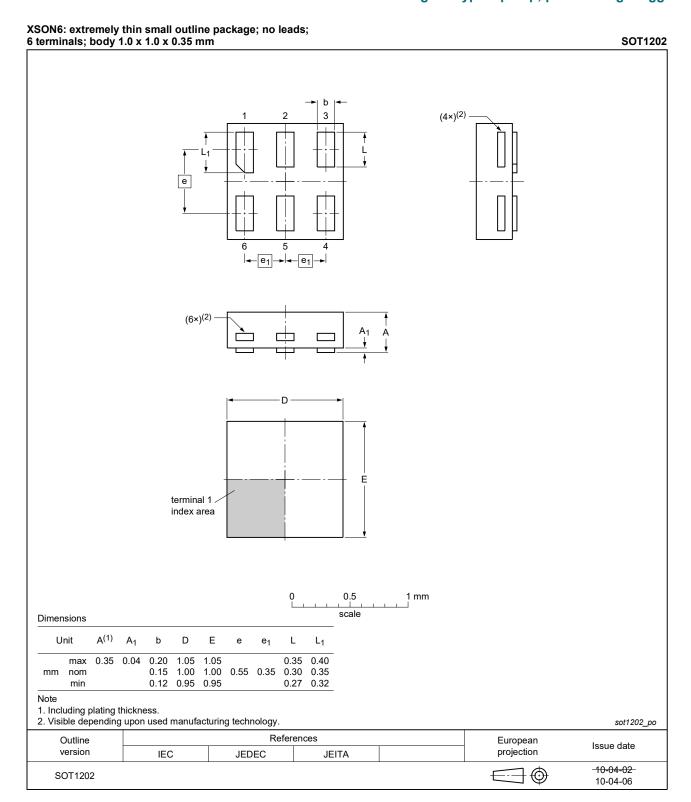


Fig. 15. Package outline SOT1202 (XSON6)

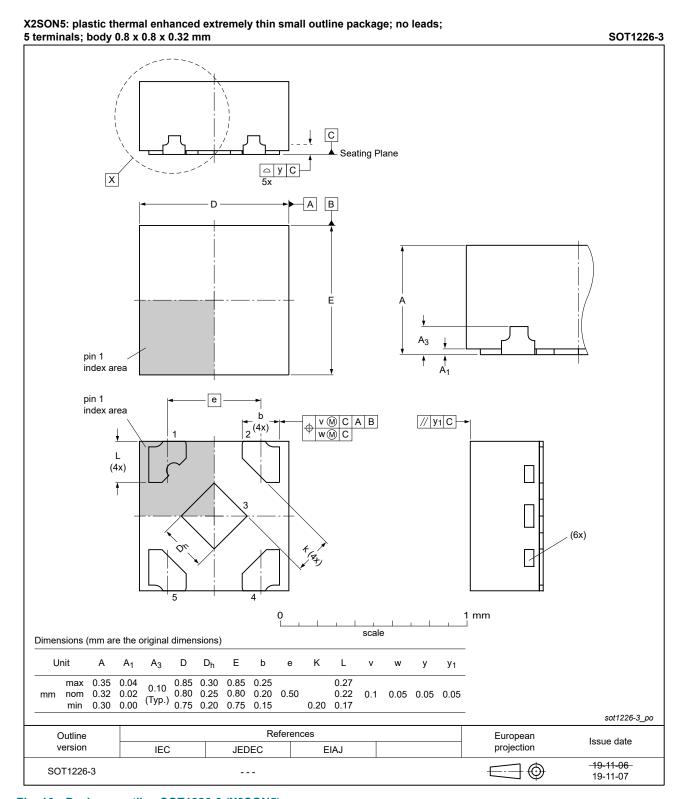


Fig. 16. Package outline SOT1226-3 (X2SON5)

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

## 13. Abbreviations

#### **Table 11. Abbreviations**

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

# 14. Revision history

#### **Table 12. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC1G79 v.15	20230818	Product data sheet	-	74LVC1G79 v.14		
Modifications:	Section 2: I	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74LVC1G79 v.14	20220329	Product data sheet	-	74LVC1G79 v.13		
Modifications:	Package So	Package SOT1226 (X2SON5) changed to SOT1226-3 (X2SON5).				
74LVC1G79 v.13	20220201	Product data sheet	-	74LVC1G79 v.12		
Modifications:	guidelines of Legal texts Type numb Section 1 a Table 5: De	<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 74LVC1G79GF (SOT891/XSON6) removed.</li> <li>Section 1 and Section 2 updated.</li> <li>Table 5: Derating values for P<sub>tot</sub> total power dissipation updated.</li> <li>Fig. 11: Package outline drawing SOT353-1 (TSSOP5) has changed.</li> </ul>				
74LVC1G79 v.12	20161205	Product data sheet	-	74LVC1G79 v.11		
Modifications:	• <u>Table 7</u> : Th	<u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC1G79 v.11	20120702	Product data sheet	-	74LVC1G79 v.10		
Modifications:	Added type	Added type number 74LVC1G79GX (SOT1226)				
74LVC1G79 v.10	20120402	Product data sheet	-	74LVC1G79 v.9		
Modifications:	Errata in <u>Ta</u>	Errata in <u>Table 3</u> corrected (description CP input).				
74LVC1G79 v.9	20111202	Product data sheet	-	74LVC1G79 v.8		
Modifications:	Legal page	Legal pages updated.				
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	-	-		

## 15. 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.

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

## **Contents**

1. General description	1
2. Features and benefits	1
3. Ordering information	2
4. Marking	2
5. Functional diagram	2
6. Pinning information	3
6.1. Pinning	3
6.2. Pin description	2
7. Functional description	4
8. Limiting values	5
9. Recommended operating conditi	ons5
10. Static characteristics	6
11. Dynamic characteristics	8
11.1. Waveforms and test circuit	9
12. Package outline	
13. Abbreviations	
14. Revision history	
15. Legal information	
•	

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