# 74LVC2G74

# Single D-type flip-flop with set and reset; positive edge trigger

Rev. 14 — 27 August 2021

Product data sheet

### 1. General description

The 74LVC2G74 is a single positive edge triggered D-type flip-flop with individual data (D), clock (CP), set ( $\overline{SD}$ ) and reset ( $\overline{RD}$ ) inputs, and complementary Q and  $\overline{Q}$  outputs. 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
- Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8-B/JESD36 (2.7 V to 3.6 V)
- ±24 mA output drive (V<sub>CC</sub> = 3.0 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- CMOS low power consumption
- · Latch-up performance exceeds 250 mA
- · Direct interface with TTL levels
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- · Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



### Single D-type flip-flop with set and reset; positive edge trigger

# 3. Ordering information

**Table 1. Ordering information** 

Type number	Package			
	Temperature range	Name	Description	Version
74LVC2G74DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74LVC2G74DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC2G74GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1
74LVC2G74GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116
74LVC2G74GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203

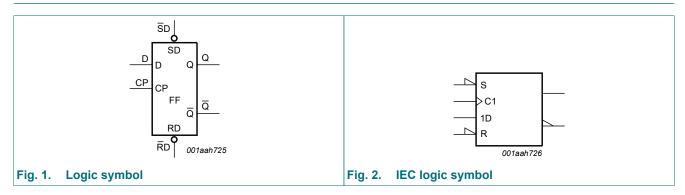
# 4. Marking

Table 2. Marking codes

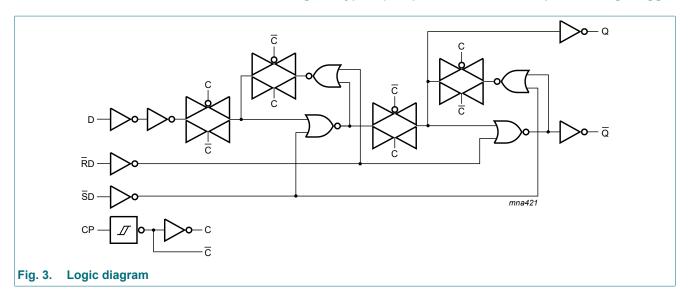
Type number	Marking code [1]			
74LVC2G74DP	V74			
74LVC2G74DC	V74			
74LVC2G74GT	V74			
74LVC2G74GN	Y4			
74LVC2G74GS	Y4			

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

# 5. Functional diagram

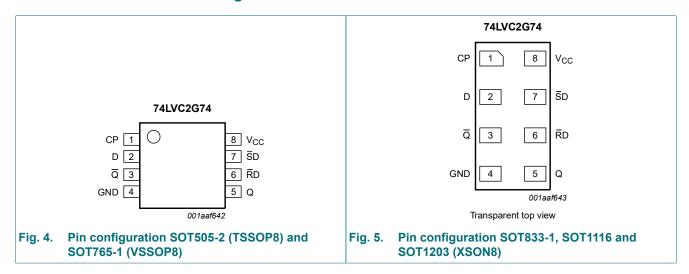


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# 6. Pinning information

### 6.1. Pinning



# 6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
CP	1	clock input (LOW-to-HIGH, edge-triggered)
D	2	data input
Q	3	complement output
GND	4	ground (0 V)
Q	5	true output
RD	6	asynchronous reset-direct input (active LOW)
SD	7	asynchronous set-direct input (active LOW)
V <sub>CC</sub>	8	supply voltage

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# 7. Functional description

#### Table 4. Function table for asynchronous operation

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care.$ 

Input		Output			
SD	RD	СР	D	Q	Q
L	Н	Х	Х	Н	L
Н	L	Х	Х	L	Н
L	L	Х	Х	Н	Н

#### Table 5. Function table for synchronous operation

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ \uparrow = LOW - to - HIGH \ CP \ transition;$ 

 $Q_{n+1}$  = state after the next LOW-to-HIGH CP transition.

Input				Output		
SD	RD	СР	D	Q <sub>n+1</sub>	Q <sub>n+1</sub>	
Н	Н	1	L	L	Н	
Н	Н	1	Н	Н	L	

### 8. Limiting values

#### **Table 6. 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 <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	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$	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.

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<sup>[2]</sup> For SOT505-2 (TSSOP8) package: P<sub>tot</sub> derates linearly with 4.6 mW/K above 96 °C.

For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.

For SOT833-1 (XSON8) package:  $P_{tot}$  derates linearly with 3.1 mW/K above 68  $^{\circ}\text{C}.$ 

For SOT1116 (XSON8) package: P<sub>tot</sub> derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package: Ptot derates linearly with 3.6 mW/K above 81 °C.

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# 9. Recommended operating conditions

**Table 7. Operating conditions** 

Symbol	Parameter	Conditions	Min	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
		$V_{CC}$ = 2.7 V to 5.5 V	-	10	ns/V

### 10. Static characteristics

#### **Table 8. 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	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65V <sub>CC</sub>	-	-	0.65V <sub>CC</sub>	-	V
	input voltage	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 <sub>CC</sub> = 4.5 V to 5.5 V	0.7V <sub>CC</sub>	-	-	0.7V <sub>CC</sub>	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35V <sub>CC</sub>	-	0.35V <sub>CC</sub>	V
	input voltage	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 <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.3V <sub>CC</sub>	-	0.3V <sub>CC</sub>	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$						
	output voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	V <sub>CC</sub> - 0.1	-	-	V <sub>CC</sub> - 0.1	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	1.54	-	0.95	-	V
		$I_O = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	2.15	-	1.7	-	V
		$I_O = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	2.50	-	1.9	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.3	2.62	-	2.0	-	V
		$I_O = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	4.11	-	3.4	-	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 5.5 V	-	-	0.10	-	0.10	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	0.07	0.45	-	0.70	V
		$I_{O}$ = 8 mA; $V_{CC}$ = 2.3 V	-	0.12	0.30	-	0.45	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	0.17	0.40	-	0.60	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	0.33	0.55	-	0.80	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	0.39	0.55	-	0.80	V

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Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to	+125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
II	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	±0.1	±1	-	±1	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 5.5 \text{ V}$ ; $V_{CC} = 0 \text{ V}$	-	±0.1	±2	-	±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	-	4	μA
ΔI <sub>CC</sub>	additional supply current	per pin; $V_1 = V_{CC} - 0.6 \text{ V}$ ; $I_0 = 0 \text{ A}$ ; $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	5	500	-	500	μΑ
C <sub>I</sub>	input capacitance		-	4.0	-	-	-	pF

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

# 11. Dynamic characteristics

**Table 9. Dynamic characteristics** 

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 8.

Symbol	Parameter	Conditions	-4	0 °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, $\overline{\mathbf{Q}}$ ; see Fig. 6						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	6.0	13.4	1.5	13.4	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	3.5	7.1	1.0	7.1	ns
		V <sub>CC</sub> = 2.7 V	1.0	3.5	7.1	1.0	7.1	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	3.5	5.9	1.0	5.9	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
		$\overline{SD}$ to Q, $\overline{Q}$ ; see $\underline{Fig. 7}$ [2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	6.0	12.9	1.5	12.9	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V <sub>CC</sub> = 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	3.0	5.9	1.0	5.9	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns
		RD to Q, Q; see Fig. 7 [2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	5.0	12.9	1.5	12.9	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V <sub>CC</sub> = 2.7 V	1.0	3.5	7.0	1.0	7.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	3.0	5.9	1.0	5.9	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.0	2.5	4.1	1.0	4.1	ns

#### Single D-type flip-flop with set and reset; positive edge trigger

Symbol	Parameter	Conditions	-4	0 °C to +85	°C	-40 °C to	o +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
t <sub>W</sub>	pulse width	CP HIGH or LOW; see Fig. 6						
		V <sub>CC</sub> = 1.65 V to 1.95 V	6.2	-	-	6.2	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.7	-	-	2.7	-	ns
		V <sub>CC</sub> = 2.7 V	2.7	-	-	2.7	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.7	1.3	-	2.7	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	ns
		SD and RD LOW; see Fig. 7						
		V <sub>CC</sub> = 1.65 V to 1.95 V	6.2	-	-	6.2	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.7	-	-	2.7	-	ns
		V <sub>CC</sub> = 2.7 V	2.7	-	-	2.7	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.7	1.6	-	2.7	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	ns
t <sub>rec</sub>	recovery time	SD or RD; see Fig. 7						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.9	-	-	1.9	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.4	-	-	1.4	-	ns
		V <sub>CC</sub> = 2.7 V	1.3	-	-	1.3	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	+1.2	-3.0	-	+1.2	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.0	-	-	1.0	-	ns
t <sub>su</sub>	set-up time	D to CP; see Fig. 6						
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.9	-	-	2.9	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	ns
		V <sub>CC</sub> = 2.7 V	1.7	-	-	1.7	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.3	0.5	-	1.3	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.1	-	-	1.1	-	ns
t <sub>h</sub>	hold time	D to CP; see Fig. 6						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	-	-	1.5	-	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	-	-	1.0	-	ns
		V <sub>CC</sub> = 2.7 V	1.0	-	-	1.0	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	0.6	-	1.0	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	1.0	-	-	1.0	-	ns
f <sub>max</sub>	maximum	CP; see Fig. 6						+
	frequency	V <sub>CC</sub> = 1.65 V to 1.95 V	80	-	-	80	-	MHz
		V <sub>CC</sub> = 2.3 V to 2.7 V	175	-	-	175	-	MHz
		V <sub>CC</sub> = 2.7 V	175	-	-	175	-	MHz
		V <sub>CC</sub> = 3.0 V to 3.6 V	175	280	-	175	-	MHz
		V <sub>CC</sub> = 4.5 V to 5.5 V	200	-	-	200	-	MHz
C <sub>PD</sub>	power dissipation capacitance	$V_1 = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3]	-	15	-	-	-	pF

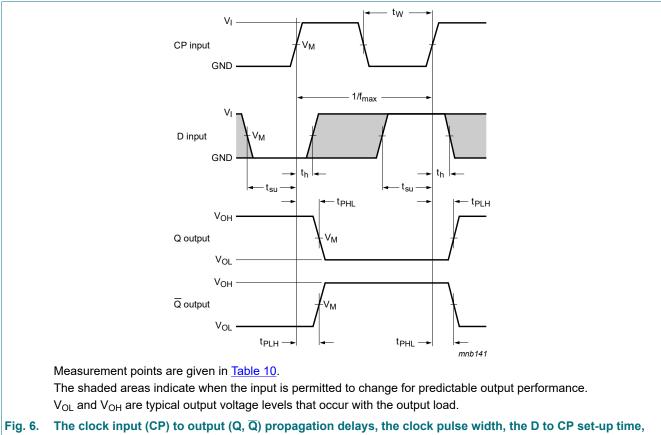
<sup>[1]</sup> Typical values are measured at  $T_{amb}$  = 25 °C and  $V_{CC}$  = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

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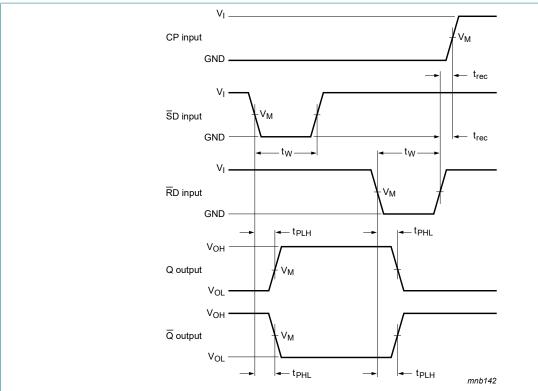
Typical values are measured at I<sub>amb</sub> = 25 °C and v<sub>CC</sub> = 1.8 v, 2.9 v, t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.
 C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW). P<sub>D</sub> = C<sub>PD</sub> × V<sub>CC</sub> <sup>2</sup> × f<sub>i</sub> × N + ∑(C<sub>L</sub> × V<sub>CC</sub> <sup>2</sup> × f<sub>o</sub>) 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 V; N = number of inputs switching; ∑(C<sub>L</sub> × V<sub>CC</sub> <sup>2</sup> × f<sub>o</sub>) = sum of outputs.

#### Single D-type flip-flop with set and reset; positive edge trigger

# 11.1. Waveforms and test circuit



### Single D-type flip-flop with set and reset; positive edge trigger



Measurement points are given in Table 10.

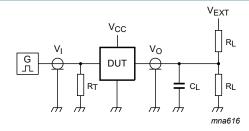
 $V_{\text{OL}}$  and  $V_{\text{OH}}$  are typical output voltage levels that occur with the output load.

Fig. 7. The set ( $\overline{SD}$ ) and reset ( $\overline{RD}$ ) input to output (Q,  $\overline{Q}$ ) propagation delays, the set and reset pulse widths and the  $\overline{RD}$  to CP recovery time

**Table 10. 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 × 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 with set and reset; positive edge trigger



Test data is given in Table 11.

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. 8. Test circuit for measuring switching times

#### Table 11. Test data

Supply voltage Input			Load	Load		V <sub>EXT</sub>		
V <sub>CC</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>	
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	open	GND	2V <sub>CC</sub>	
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open	GND	2V <sub>CC</sub>	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V	
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V <sub>CC</sub>	

#### Single D-type flip-flop with set and reset; positive edge trigger

# 12. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

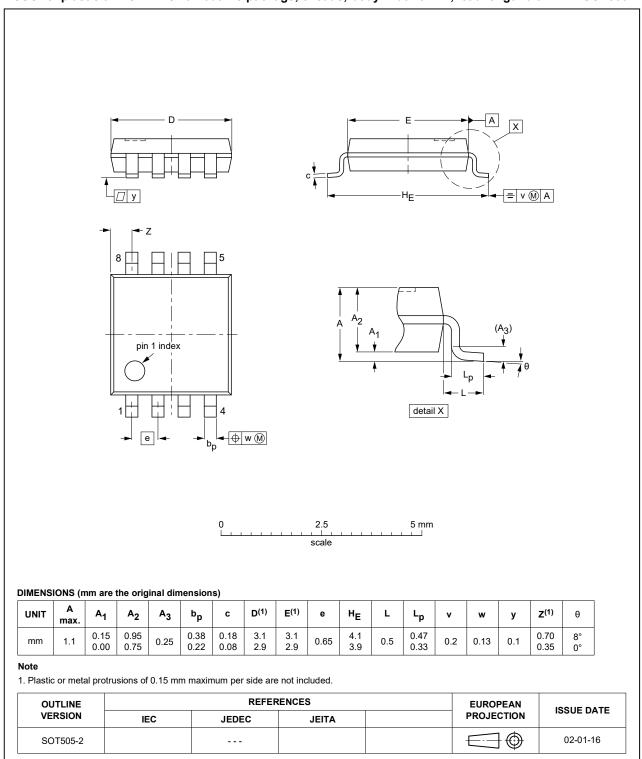


Fig. 9. Package outline SOT505-2 (TSSOP8)

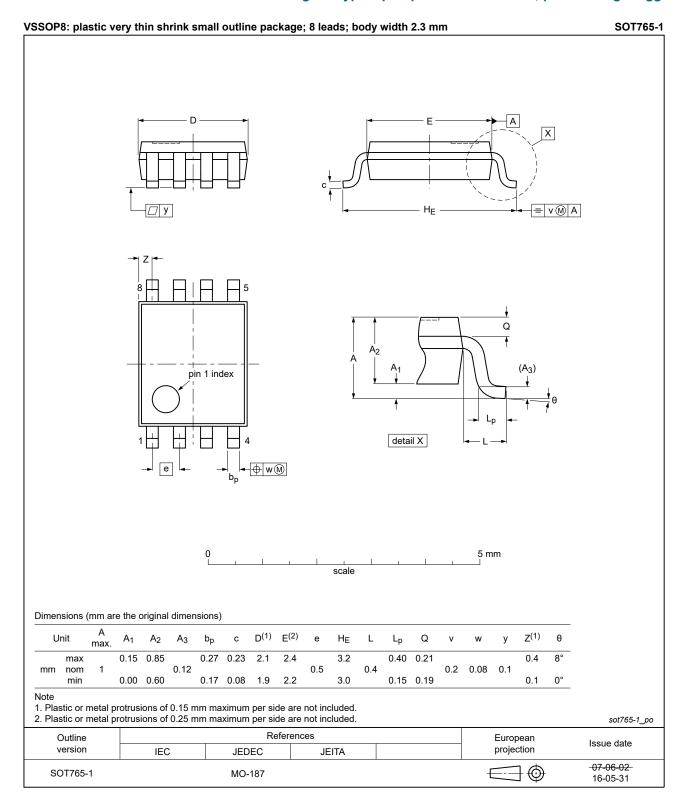


Fig. 10. Package outline SOT765-1 (VSSOP8)

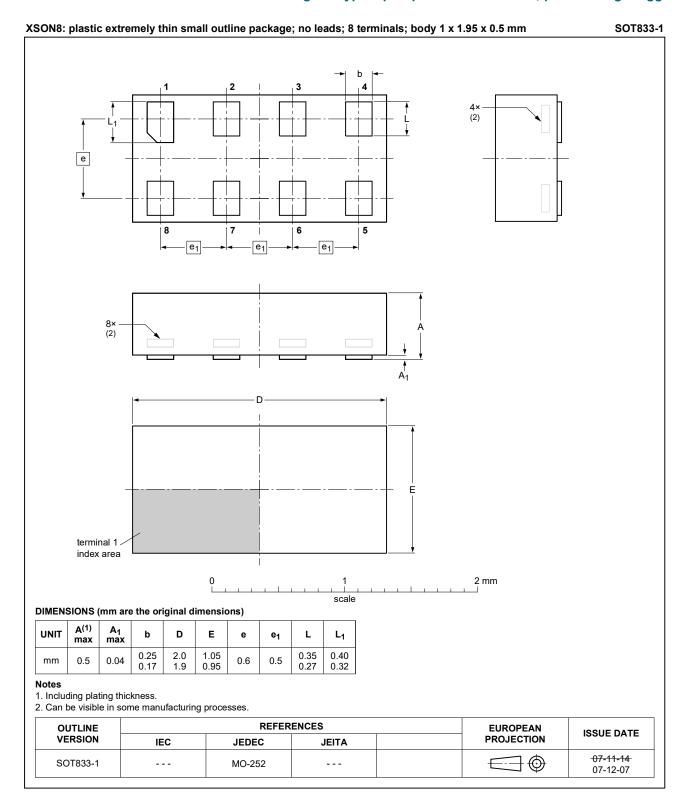


Fig. 11. Package outline SOT833-1 (XSON8)

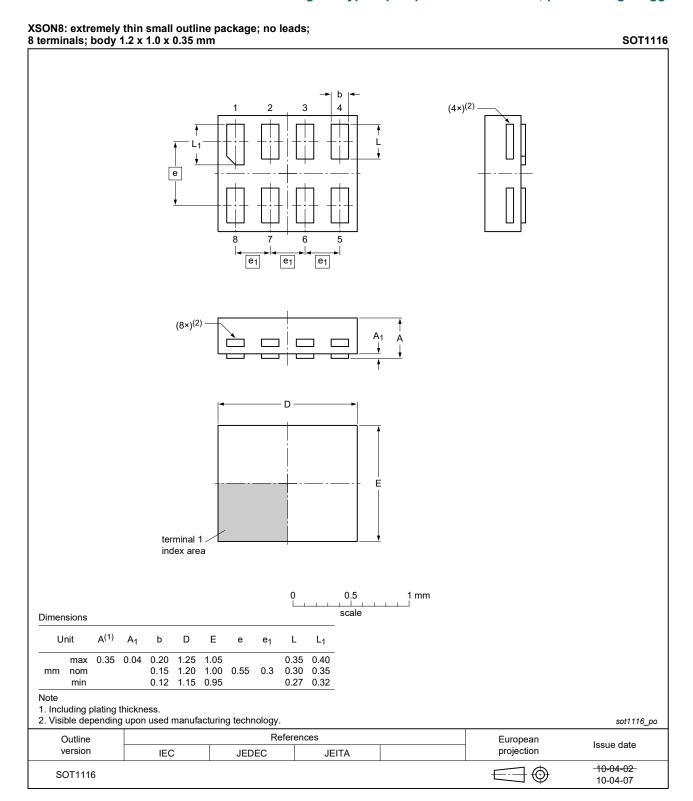


Fig. 12. Package outline SOT1116 (XSON8)

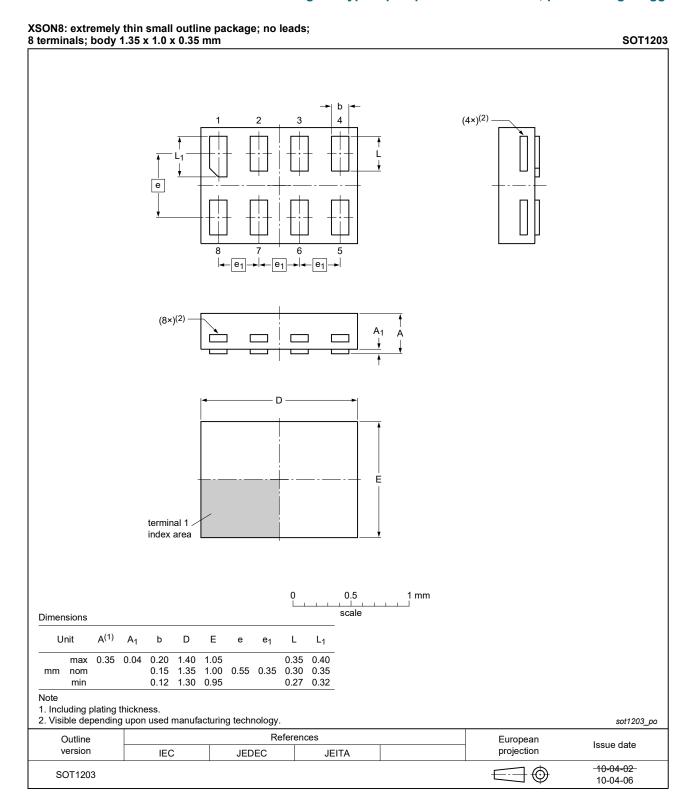


Fig. 13. Package outline SOT1203 (XSON8)

### Single D-type flip-flop with set and reset; positive edge trigger

# 13. Abbreviations

#### **Table 12. 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

# 14. Revision history

#### **Table 13. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC2G74 v.14	20210827	Product data sheet	-	74LVC2G74 v.13		
Modifications:	Type number	Type number 74LVC2G74GM (SOT902-2/XQFN8) removed.				
74LVC2G74 v.13	20210421	Product data sheet	-	74LVC2G74 v.12		
Modifications:	• <u>Section 1</u> ar	<ul> <li>Type number 74LVC2G74GF (SOT1089 / XSON8) removed.</li> <li>Section 1 and Section 2 updated.</li> <li>Section 8: Ptot total power dissipation and it's derating values updated.</li> </ul>				
74LVC2G74 v.12	20181003	Product data sheet	-	74LVC2G74 v.11		
Modifications:	of Nexperia. • Legal texts	<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 74LVC2G74GD (SOT996-2) removed.</li> </ul>				
74LVC2G74 v.11	20161215	Product data sheet	-	74LVC2G74 v.10		
Modifications:	• <u>Table 8</u> : The	<u>Table 8</u> : The maximum limits for leakage current and supply current have changed.				
74LVC2G74 v.10	20130402	Product data sheet	-	74LVC2G74 v.9		
Modifications:	For type nur	For type number 74LVC2G74GD XSON8U has changed to XSON8.				
74LVC2G74 v.9	20120522	Product data sheet	-	74LVC2G74 v.8		
Modifications:	For type nur	For type number 74LVC2G74GM the sot code has changed to SOT902-2.				
74LVC2G74 v.8	20111128	Product data sheet	-	74LVC2G74 v.7		
Modifications:	Legal pages	Legal pages updated.				
74LVC2G74 v.7	20101011	Product data sheet	-	74LVC2G74 v.6		
74LVC2G74 v.6	20091223	Product data sheet	-	74LVC2G74 v.5		
74LVC2G74 v.5	20080630	Product data sheet	-	74LVC2G74 v.4		
74LVC2G74 v.4	20080207	Product data sheet	-	74LVC2G74 v.3		
74LVC2G74 v.3	20070809	Product data sheet	-	74LVC2G74 v.2		
74LVC2G74 v.2	20061214	Product data sheet	-	74LVC2G74 v.1		
74LVC2G74 v.1	20051103	Product data sheet	-	-		
				·		

#### Single D-type flip-flop with set and reset; positive edge trigger

### 15. 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.
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Product [short] data sheet	Production	This document contains the product specification.

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### Single D-type flip-flop with set and reset; positive edge trigger

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