Single D-type flip-flop with set and reset; positive edge trigger Rev. 13 — 21 April 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)
- $\pm$ 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
- IOFF circuitry provides partial Power-down mode operation
- · Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

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### 3. Ordering information

 Table 1. Ordering information

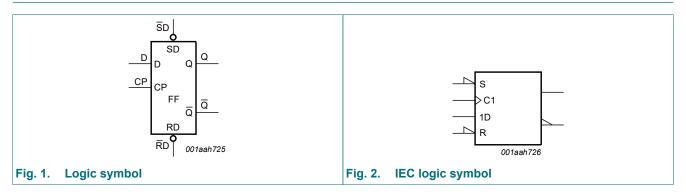
Type number	Package	Package								
	Temperature range	Name	Description	Version						
74LVC2G74DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2						
74LVC2G74DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline 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						
74LVC2G74GM	-40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 × 1.6 × 0.5 mm	SOT902-2						
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

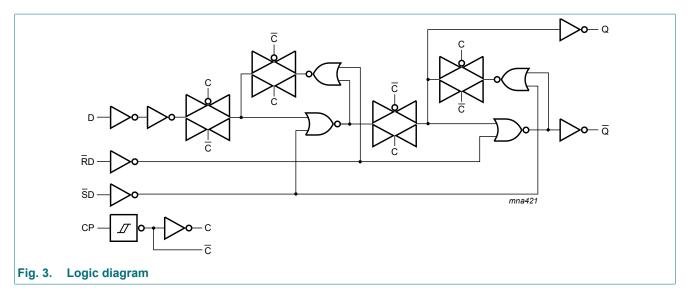
Table 2. Marking codes					
Type number	Marking code [1]				
74LVC2G74DP	V74				
74LVC2G74DC	V74				
74LVC2G74GT	V74				
74LVC2G74GM	V74				
74LVC2G74GN	Y4				
74LVC2G74GS	Y4				

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

### 5. Functional diagram

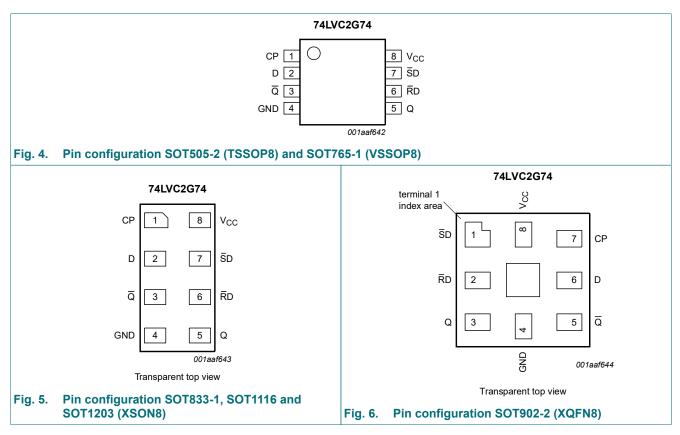


74LVC2G74



### 6. Pinning information





### 6.2. Pin description

Table	3.	Pin	descri	otion
IUNIO	•••		400011	

Symbol	Pin		Description	
	SOT505-2, SOT765-1, SOT833-1, SOT1116 and SOT1203	SOT902-2		
CP	1	7	clock input (LOW-to-HIGH, edge-triggered)	
D	2	6	data input	
Q	3	5	complement output	
GND	4	4	ground (0 V)	
Q	5	3	true output	
RD	6	2	asynchronous reset-direct input (active LOW)	
SD	7	1	asynchronous set-direct input (active LOW)	
V <sub>CC</sub>	8	8	supply voltage	

### 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 n+1
Н	Н	1	L	L	Н
Н	Н	1	Н	Н	L

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### 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 <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	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V		-	±50	mA
Vo	output voltage	Active mode	[1]	-0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode; $V_{CC}$ = 0 V	[1]	-0.5	+6.5	V
I <sub>O</sub>	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
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

The input and output voltage ratings may be exceeded if the input and output current ratings are observed. [1] [2]

For SOT505-2 (TSSOP8) package: Ptot 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: Ptot derates linearly with 3.1 mW/K above 68 °C.

For SOT902-2 (XQFN8) packages: Ptot derates linearly with 4.1 mW/K above 89 °C.

For SOT1116 (XSON8) package: Ptot 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.

### 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; $V_{CC}$ = 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

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### **10. Static characteristics**

#### Table 8. Static characteristics

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

Symbol	Parameter	Conditions	-4(	0 °C to +85	°C	-40 °C to	• +125 °C	Unit
			Min	Тур <mark>[1]</mark>	Max	Min	Max	1
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 <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
011	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 <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	1.9	2.15	-	1.7	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 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 <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V	3.8	4.11	-	3.4	-	V
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
		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 <sub>O</sub> = 8 mA; V <sub>CC</sub> = 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
I	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	$V_{I} \text{ or } V_{O} = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	±0.1	±2	-	±2	μA
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; $V_1 = V_{CC} - 0.6 V$ ; $I_0 = 0 A$ ; $V_{CC} = 2.3 V$ to 5.5 V	-	5	500	-	500	μA
CI	input capacitance		-	4.0	-	-	-	pF

[1] 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. 9.

Symbol	Parameter	Conditions	-4	-40 °C to +85 °C			-40 °C to +125 °C	
			Min	Typ [1] Max		Min	Max	
t <sub>pd</sub>	propagation delay	CP to Q, $\overline{Q}$ ; see Fig. 7 [2]						
		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 <u>Fig. 8</u> [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
		$\overline{RD}$ to Q, $\overline{Q}$ ; see <u>Fig. 8</u> [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
t <sub>W</sub>	pulse width	CP HIGH or 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	1.3	-	2.7	-	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	-	-	2.0	-	ns
		SD and RD LOW; see <u>Fig. 8</u>						
		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 <u>Fig. 8</u>						
		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

74LVC2G74

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

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to	o +125 °C	Unit
			Min	Тур [1]	Max	Min	Max	1
t <sub>su</sub>	set-up time	D to CP; see <u>Fig. 7</u>						
		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 <u>Fig. 7</u>						
		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 <u>Fig. 7</u>						
	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	$V_{I} = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V}$ [3]	-	15	-	-	-	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. [1]

[1] Typical values are measured at  $r_{amb} = 25$  °C and  $v_{CC} = 1.5$  v, 2.5 v. [2]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . [3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum (C_L \times V_{CC}^2 \times f_o)$  where:

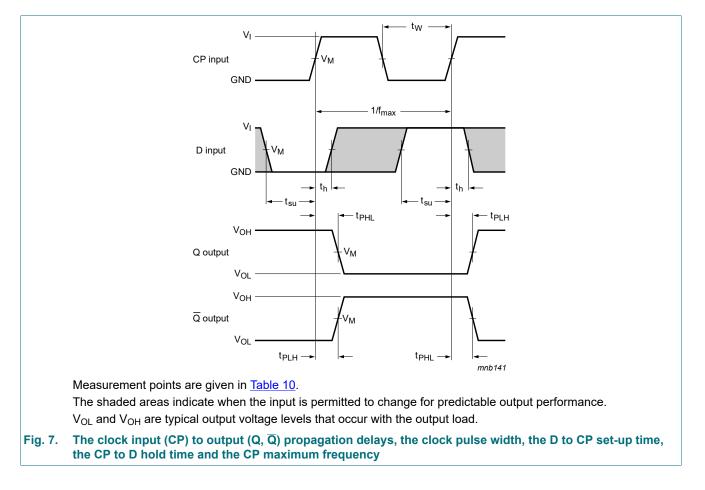
f<sub>i</sub> = input frequency in MHz;

fo = output frequency in MHz;

 $C_L$  = output load capacitance in pF;

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

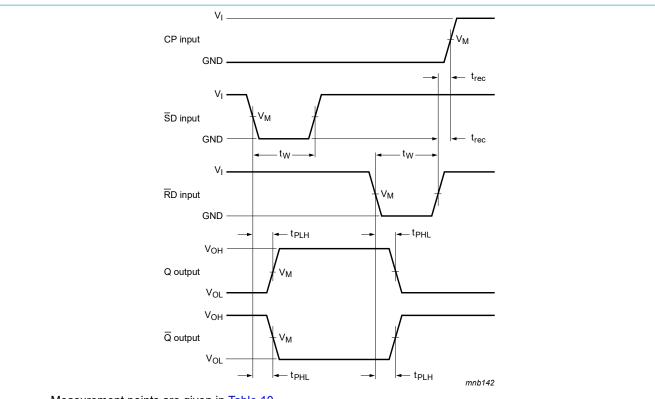
N = number of inputs switching;  $\sum (C_L \times V_{CC}^2 \times f_0)$  = sum of outputs.



### 11.1. Waveforms and test circuit

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



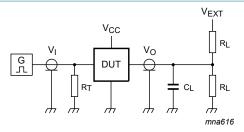
Measurement points are given in <u>Table 10</u>.

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

# Fig. 8. The set (SD) and reset (RD) input to output (Q, Q) propagation delays, the set and reset pulse widths and the 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	$0.5 \times V_{CC}$	0.5 × V <sub>CC</sub>	



Test data is given in Table 11.

Definitions for test circuit:

R<sub>L</sub> = Load resistance.

 $C_{\text{L}}$  = Load capacitance including jig and probe capacitance.

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

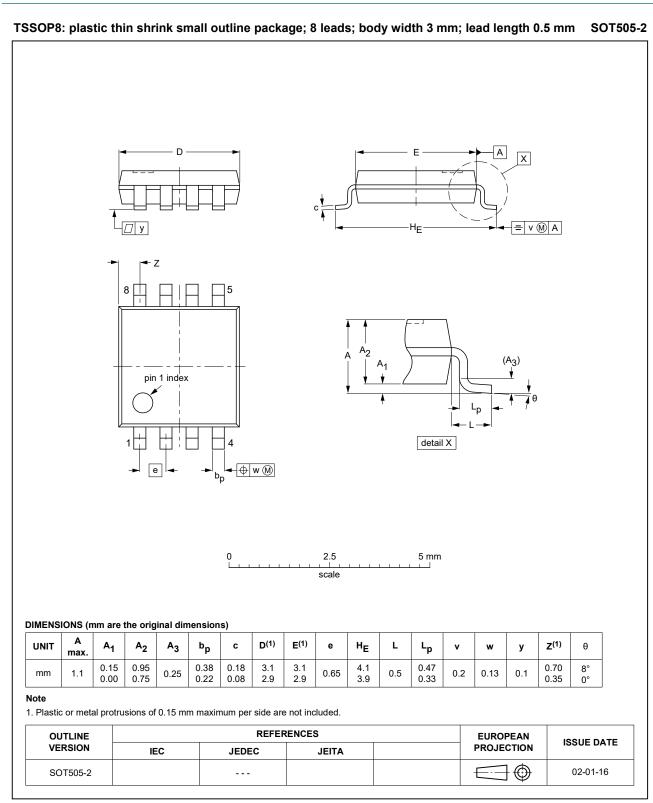
 $V_{EXT}$  = External voltage for measuring switching times.

#### Fig. 9. 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	RL	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>	

### 12. Package outline



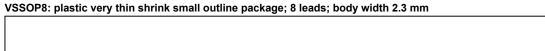
#### Fig. 10. Package outline SOT505-2 (TSSOP8)

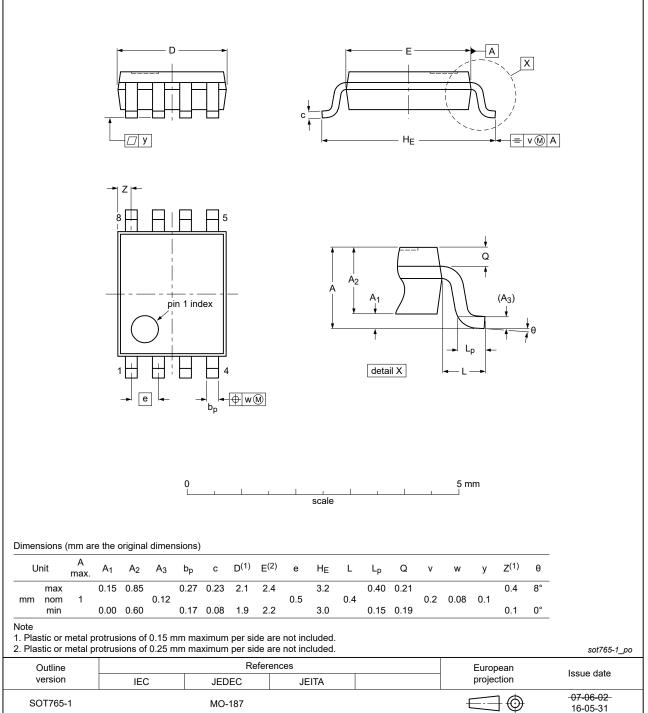
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SOT765-1

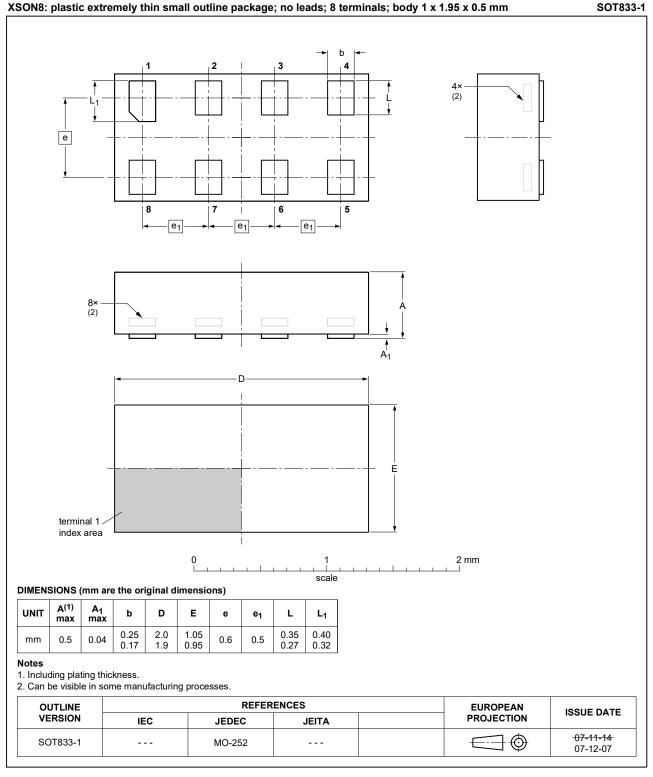
#### Single D-type flip-flop with set and reset; positive edge trigger







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

XQFN8: plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 x 1.6 x 0.5 mm

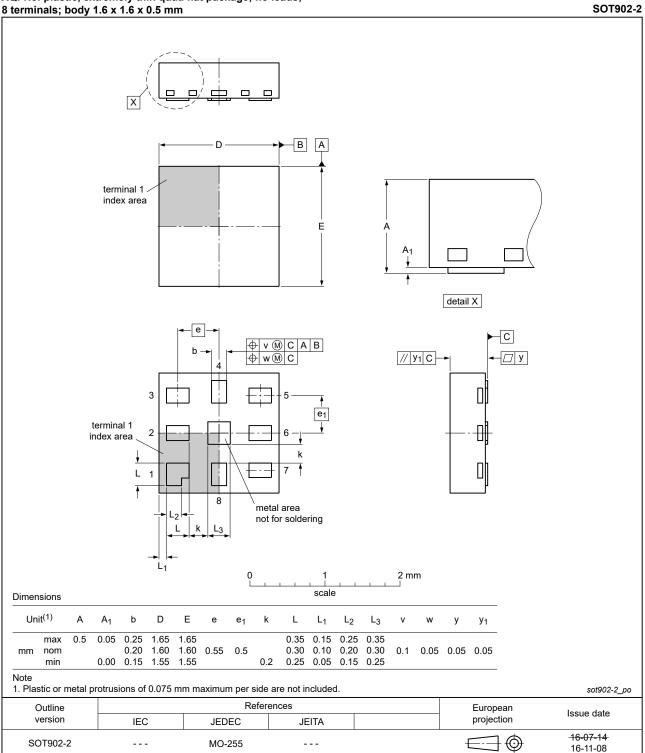
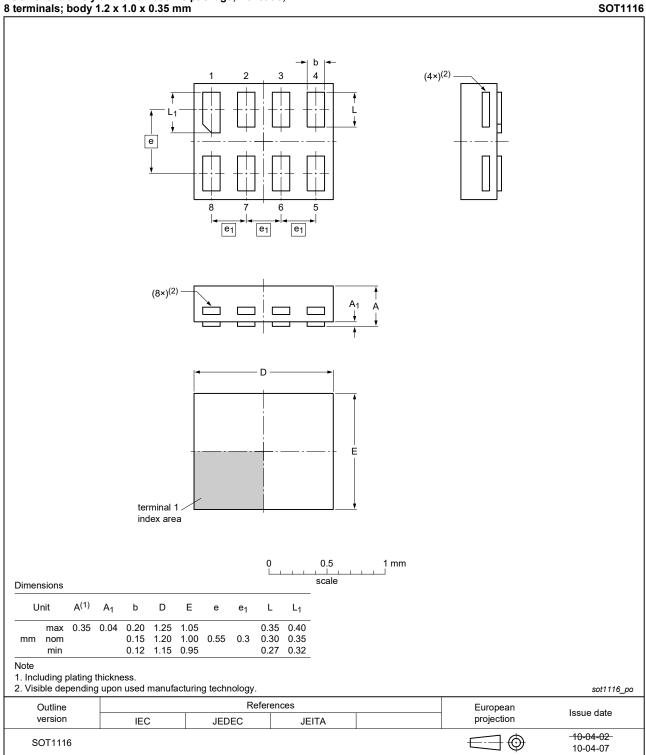


Fig. 13. Package outline SOT902-2 (XQFN8)

Downloaded from Arrow.com.

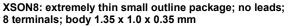
#### XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.2 x 1.0 x 0.35 mm

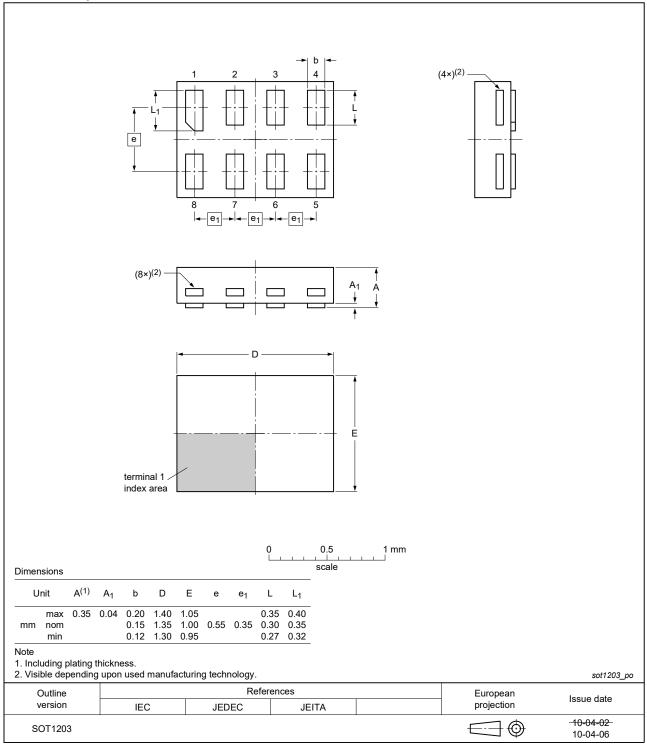




SOT1203

#### 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			
HBM	Human Body Model			
MM	Machine Model			
TTL	Transistor-Transistor Logic			

# 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC2G74 v.13	20210421	Product data sheet	-	74LVC2G74 v.12		
Modifications:	<u>Section 1</u> ar	er 74LVC2G74GF (SOT1 nd <u>Section 2</u> updated. P <sub>tot</sub> total power dissipatior	,			
74LVC2G74 v.12	20181003	Product data sheet	-	74LVC2G74 v.11		
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 74LVC2G74GD (SOT996-2) removed.</li> </ul>					
74LVC2G74 v.11	20161215	Product data sheet	-	74LVC2G74 v.10		
Modifications:	• <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 number 74LVC2G74GD XSON8U has changed to XSON8.					
74LVC2G74 v.9	20120522	Product data sheet	-	74LVC2G74 v.8		
Modifications:	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 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	-	-		

### 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.
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".
- [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 <u>https://www.nexperia.com</u>.

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