74LV74

Dual D-type flip-flop with set and reset; positive-edge trigger Rev. 6 — 8 April 2024 Product data sheet

1. General description

The 74LV74 is a dual positive edge triggered D-type flip-flop with individual data (nD), clock (nCP), set (n \overline{SD}) and reset (n \overline{RD}) inputs, and complementary nQ and n \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 nQ output. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess V_{CC} .

2. Features and benefits

- Wide supply voltage range from 1.0 V to 5.5 V
- Optimized for low voltage applications from 1.0 V to 3.6 V
- · CMOS low power dissipation
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Direct interface with TTL levels (2.7 V to 3.6 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
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

3. Ordering information

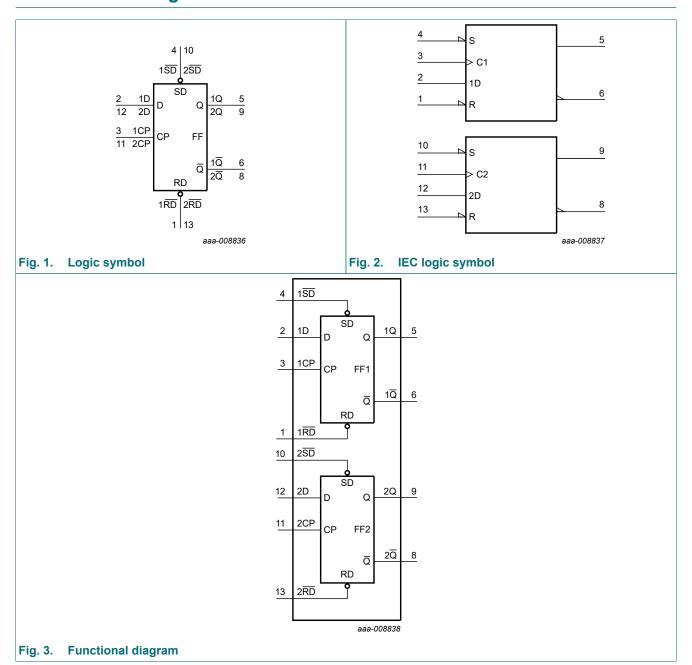
Table 1. Ordering information

Type number	Package	ackage								
	Temperature range	Name	Description	Version						
74LV74D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1						
74LV74PW	-40 °C to +125 °C		plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1						

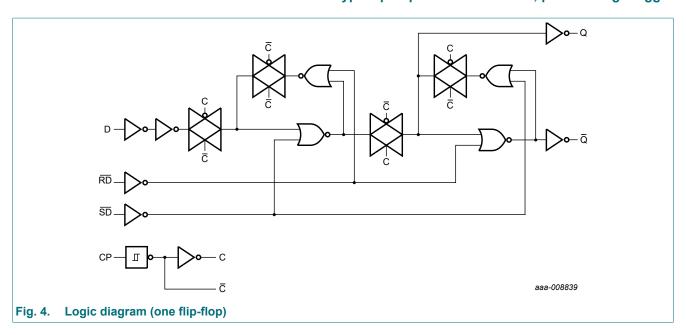


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4. Functional diagram

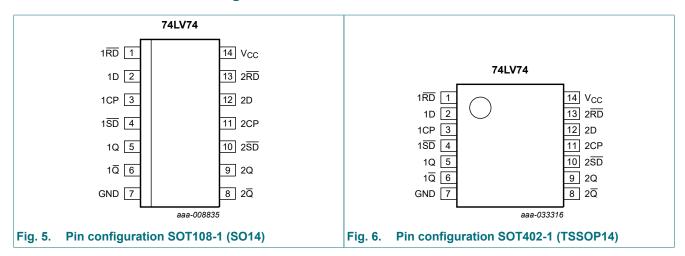


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5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1RD, 2RD	1, 13	asynchronous reset-direct input (active-LOW)
1D, 2D	2, 12	data inputs
1CP, 2CP	3, 11	clock input (LOW-to-HIGH), edge-triggered)
1 <u>SD</u> , 2 <u>SD</u>	4, 10	asynchronous set-direct input (active-LOW)
1Q, 2Q	5, 9	true flip-flop outputs
1Q, 2Q	6, 8	complement flip-flop outputs
GND	7	ground (0 V)
V _{CC}	14	supply voltage

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6. Functional description

Table 3. Function table

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

 \uparrow = LOW-to-HIGH clock transition; Q_{n+1} = state after the next LOW-to-HIGH CP transition

Input			Output				
nSD	nRD	nCP	nD	nQ	nQ	Q _{n+1}	nQ _{n+1}
L	Н	Х	Х	Н	L	-	-
Н	L	Х	Х	L	Н	-	-
L	L	Х	Х	Н	Н	-	-
Н	Н	1	L	-	-	L	Н
Н	Н	↑	Н	-	-	Н	L

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	[1]	-0.5	+7	V
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$	-	20	mA
VI	input voltage	[1]	-0.5	+7	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$	-	±50	mA
Io	output current	$-0.5 \text{ V} < \text{V}_{\text{O}} < \text{V}_{\text{CC}} + 0.5 \text{ V}$	-	±25	mA
I _{CC}	supply current		-	±50	mA
I _{GND}	ground current		-	±50	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [2]	-	500	

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

^[2] For SOT108-1 (SO14) package: P_{tot} derates linearly with 10.1 mW/K above 100 °C. For SOT402-1 (TSSOP14) package: P_{tot} derates linearly with 7.3 mW/K above 81 °C.

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8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage [1]		1.0	3.3	5.5	V
VI	input voltage		0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.0 V to 2.0 V	0	-	500	ns/V
		$V_{CC} = 2.0 \text{ V to } 2.7 \text{ V}$	0	-	200	ns/V
		V _{CC} = 2.7 V to 3.6 V	0	-	100	ns/V
		$V_{CC} = 3.6 \text{ V to } 5.5 \text{ V}$	0	-	50	ns/V

^{[1] 74}LV74 is guaranteed to function down to V_{CC} = 1.0 V (input levels GND or V_{CC}); DC characteristics are guaranteed from V_{CC} = 1.2 V to V_{CC} = 5.5 V.

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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 +85 °C			-40 °C to +125 °C		
			Min	Typ[1]	Max	Min	Max		
V _{IH}	HIGH-level	V _{CC} = 1.2 V	0.9	-	-	0.9	-	V	
inpu	input voltage	V _{CC} = 2.3 V to 2.7 V	1.4	-	-	1.4	-	V	
		V _{CC} = 2.7 V to 3.6 V		-	-	2.0	-	V	
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	0.7V _{CC}	-	V	
V _{IL}	LOW-level	V _{CC} = 1.2 V	-	-	0.3	-	0.3	V	
	input voltage	V _{CC} = 2.3 V to 2.7 V	-	-	0.6	-	0.6	V	
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V	
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}	-	0.3V _{CC}		
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $I_O = -100 \mu A$							
	output voltage	V _{CC} = 1.2 V	-	1.2		-			
		V _{CC} = 2.0 V	1.8	2.0	-	1.8	-	V	
		V _{CC} = 2.7 V	2.5	2.7	-	2.5	-	V	
		V _{CC} = 3.0 V	2.8	3.0	-	2.8	-	V	
		V _{CC} = 4.5 V	4.3	4.5	-	4.3	-	V	
		standard outputs: V _I = V _{IH} or V _{IL}							
		V _{CC} = 3.0 V; I _O = -6 mA	2.40	2.82	-	2.20	-	V	
		V _{CC} = 4.5 V; I _O = -12 mA	3.60	4.20	-	3.50	-	V	
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $I_O = 100 \mu A$							
	output voltage	V _{CC} = 1.2 V	-	0	-	-	-		
		V _{CC} = 2.0 V	-	0	0.2		0.2	V	
		V _{CC} = 2.7 V	-	0	0.2		0.2	V	
		V _{CC} = 3.0 V	-	0	0.2		0.2	V	
		V _{CC} = 4.5 V	-	0	0.2		0.2	V	
		standard outputs: V _I = V _{IH} or V _{IL}							
		V _{CC} = 3.0 V; I _O = 6 mA	-	0.25	0.40	-	0.50	V	
		V _{CC} = 4.5 V; I _O = 12 mA	-	0.35	0.55	-	0.65	V	
I _I	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±1	-	±1	μΑ	
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	20	-	80	μΑ	
Δl _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	500	-	850	μΑ	
C _I	input capacitance		-	3.5	-			pF	

^[1] Typical values are measured at T_{amb} = 25 °C.

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10. Dynamic characteristics

Table 7. Dynamic characteristics

GND (ground = 0 V): for test circuit, see Fig. 9

Symbol	Parameter	Conditions		-40	°C to +8	5 °C	-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	1
t _{pd}	propagation	nCP to nQ, nQ; see Fig. 7	[2]						
delay	delay	V _{CC} = 1.2 V		-	70	-	-	-	ns
		V _{CC} = 2.0 V		-	24	44	-	56	ns
		V _{CC} = 2.7 V		-	18	28	-	41	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	13	26	-	33	ns
		V _{CC} = 3.3 V; C _L = 15 pF		-	11	-	-	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	-	9.5	17	-	23	ns
		nSD to nQ, nQ; see Fig. 8							
		V _{CC} = 1.2 V		-	90	-	-	-	ns
		V _{CC} = 2.0 V		-	31	46	-	58	ns
		V _{CC} = 2.7 V		-	23	34	-	43	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	17	27	-	34	ns
		V _{CC} = 3.3 V; C _L = 15 pF		-	14	-	-	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	-	12	19	-	24	ns
		nRD to nQ, nQ; see Fig. 8							
		V _{CC} = 1.2 V		-	90	-	-	-	ns
		V _{CC} = 2.0 V		-	31	46	-	58	ns
		V _{CC} = 2.7 V		-	23	34	-	43	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	17	27	-	34	ns
		V _{CC} = 3.3 V; C _L = 15 pF		-	14	-	-	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	-	12	19	-	24	ns
t _W	pulse width	nCP input HIGH to LOW; see Fig. 7							
		V _{CC} = 2.0 V		34	10	-	41	-	ns
		V _{CC} = 2.7 V		25	8	-	30	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	20	7	-	24	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	15	6	-	18	-	ns
		nSD or nRD pulse width LOW; see Fig. 8							
		V _{CC} = 2.0 V		34	10	-	41	-	ns
		V _{CC} = 2.7 V		25	8	-	30	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	20	7	-	24	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	15	6	-	18	-	ns
t _{rec}	recovery time	nRD; see Fig. 8							
		V _{CC} = 1.2 V		-	5	-	-	-	ns
		V _{CC} = 2.0 V		14	2	-	15	-	ns
		V _{CC} = 2.7 V		10	1	-	11	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	8	1	-	9	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	6	1	-	7	_	ns

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Symbol	Parameter	Conditions		-40 °C to +85 °C			-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	1
t _{su}	set-up time	nD to nCP; see Fig. 7							
		V _{CC} = 1.2 V		-	10	-	-	-	ns
		V _{CC} = 2.0 V		22	4	-	26	-	ns
		V _{CC} = 2.7 V		12	3	-	15	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	8	2	-	10	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	6	1	-	8	-	ns
t _h	hold time	nD to nCP; see Fig. 7							
		V _{CC} = 1.2 V		-	-10	-	-	-	ns
		V _{CC} = 2.0 V		3	-2	-	3	-	ns
		V _{CC} = 2.7 V		3	-2	-	3	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	3	-2	-	3	-	ns
		V _{CC} = 4.5 V to 5.5 V	[4]	3	-2	-	3	-	ns
f _{max}	maximum	nCP; see Fig. 7							
	frequency	V _{CC} = 2.0 V		14	40	-	12	-	MHz
		V _{CC} = 2.7 V		50	90	-	40	-	MHz
		V _{CC} = 3.0 V to 3.6 V	[3]	60	100	-	48	-	MHz
		V _{CC} = 4.5 V to 5.5 V	[4]	70	110	-	56	-	MHz
C _{PD}	power dissipation capacitance	V _I = GND to V _{CC}	[5]	-	24	-	-	-	pF

- Typical values are measured at T_{amb} = 25 °C. [1]
- t_{pd} is the same as t_{PHL} and t_{PLH} . Typical value measured at V_{CC} = 3.3 V. [2] [3]
- Typical values are measured at $V_{CC} = 5.0 \text{ V}$.
- C_{PD} is used to determine the dynamic power dissipation $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma (C_L \times V_{CC}^2 \times f_o)$ ($P_D = P_D \times V_{CC}^2 \times f_o = 0$), where: f_i = input frequency in MHz;

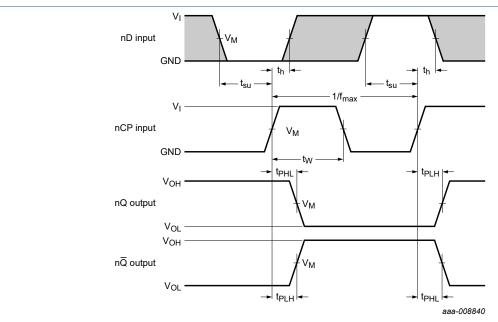
f_o = output frequency in MHz;

 $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of outputs; C_L = output load capacitance in pF;

V_{CC} = supply voltage in V.

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10.1. Waveforms and test circuit

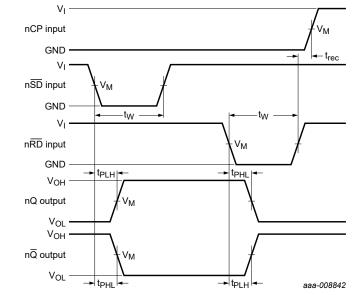


Measurement points are given in Table 8.

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

The shaded areas indicate when the input is permitted to change for predictable output performance.

Fig. 7. Clock pulse (nCP) to output (nQ, $n\overline{Q}$) propagation delays, nCP pulse width and maximum frequency



Measurement points are given in Table 8.

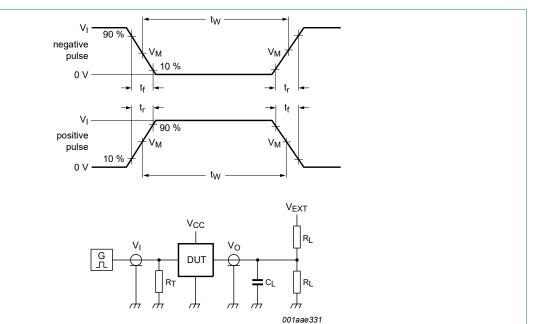
V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig. 8. The set $(n\overline{SD})$ and reset $(n\overline{RD})$ input to output $(nQ, n\overline{Q})$ propagation delays, the set and reset pulse widths and the $n\overline{RD}$ to nCP recovery time

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Table 8. Measurement points

Supply voltage	Input	Output
V _{CC}	V _M	V _M
< 2.7 V	0.5V _{CC}	0.5V _{CC}
2.7 V to 3.6 V	1.5 V	1.5 V
≥ 4.5 V	0.5V _{CC}	0.5V _{CC}



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_{o} of the pulse generator.

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

Fig. 9. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load	Load		
	V _I	t _r , t _f	CL	R _L	t _{PHL} , t _{PLH}	
< 2.7 V	V _{CC}	2.5 ns	50 pF	1 kΩ	open	
2.7 V to 3.6 V	2.7 V	2.5 ns	50 pF, 15 pF	1 kΩ	open	
≥ 4.5 V	V _{CC}	2.5 ns	50 pF	1 kΩ	open	

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11. Package outline

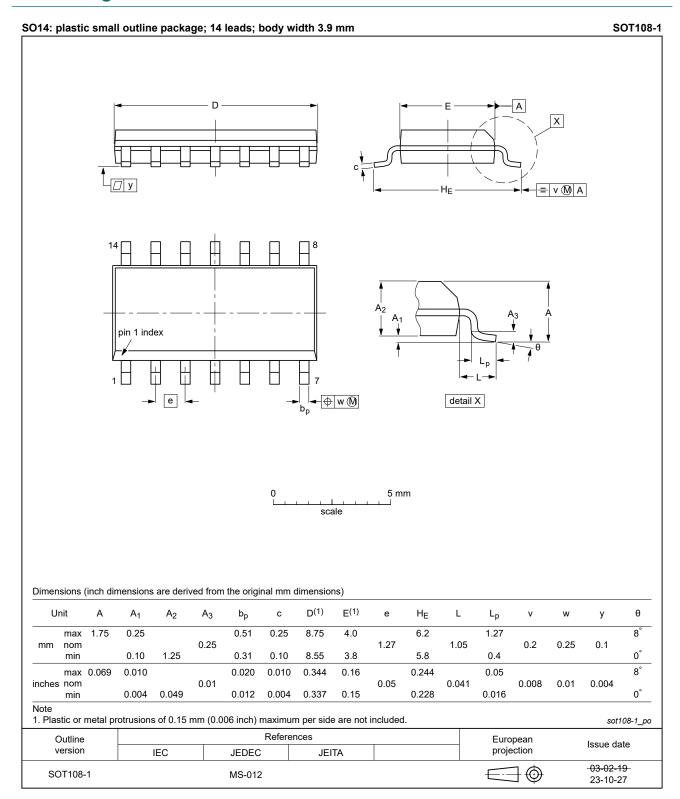


Fig. 10. Package outline SOT108-1 (SO14)

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

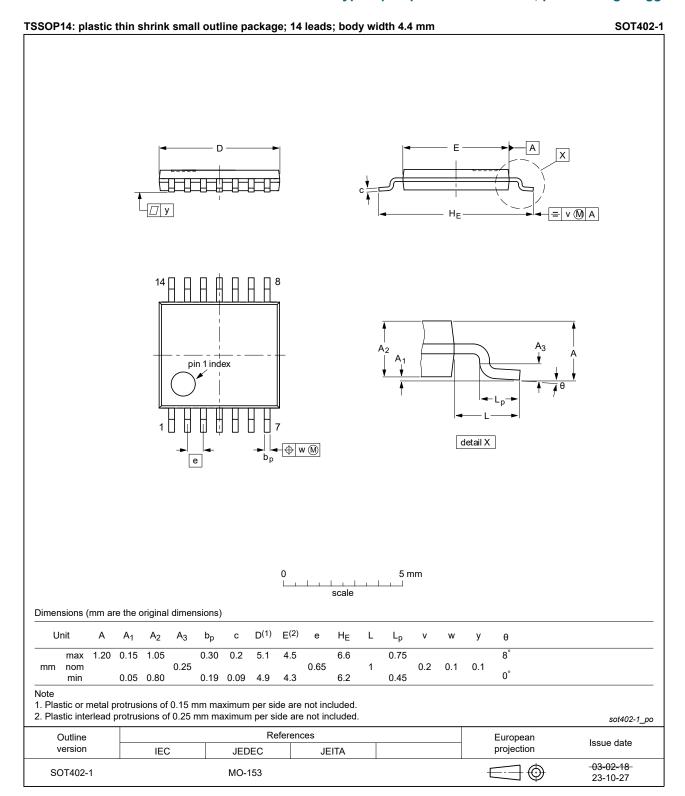


Fig. 11. Package outline SOT402-1 (TSSOP14)

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

12. Abbreviations

Table 10. Abbreviations

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

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV74 v.6	20240408	Product data sheet	-	74LV74 v.5
Modifications:	MO-153.	11: Aligned SO and TSSOP pac	-	
74LV74 v.5	20210324	Product data sheet	-	74LV74 v.4
Modifications:	Nexperia. Legal texts h Section 1 an Section 7: D	of this data sheet has been redest have been adapted to the new co d <u>Section 2</u> updated. erating values for P _{tot} total power r 74LV74DB (SOT337-1/SSOP1	ompany name where	e appropriate.
74LV74 v.4	20151209	Product data sheet	-	74LV74 v.3
Modifications:	Type numbe	r 74LV74N (SOT27-1) removed.		
74LV74 v.3	20130909	Product data sheet	-	74LV74_CNV v.2
Modifications:	guidelines of • Legal texts h	of this data sheet has been redest NXP Semiconductors. Inave been adapted to the new contact added, see Section 9		•
74LV74_CNV v.2	April 1998	Product specification	-	-

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14. 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.
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Dual D-type flip-flop with set and reset; positive-edge trigger

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