

74LV74

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

Rev. 3 — 9 September 2013

Product data sheet

1. General description

The 74LV74 is a dual positive edge triggered, D-type flip-flop. It has individual data (nD) inputs, clock (nCP) inputs, set (nSD) and (nRD) inputs, and complementary nQ and nQ outputs.

The set and reset are asynchronous active LOW inputs that operate independently of the clock input. Information on the data input is transferred to the nQ output on the LOW-to-HIGH transition of the clock pulse. The nD inputs must be stable one set-up time prior to the LOW-to-HIGH clock transition, for predictable operation. Schmitt-trigger action in the clock input makes the circuit highly tolerant to slower clock rise and fall times.

2. Features and benefits

- Wide supply voltage range from 1.0 V to 5.5 V
- Optimized for low voltage applications: 1.0 V to 3.6 V
- Direct interface with TTL levels (2.7 V to 3.6 V)
- ESD protection:
 - ◆ HBM JESD22-A114-A exceeds 2000 V
 - ◆ MM JESD22-A115-A exceeds 200 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

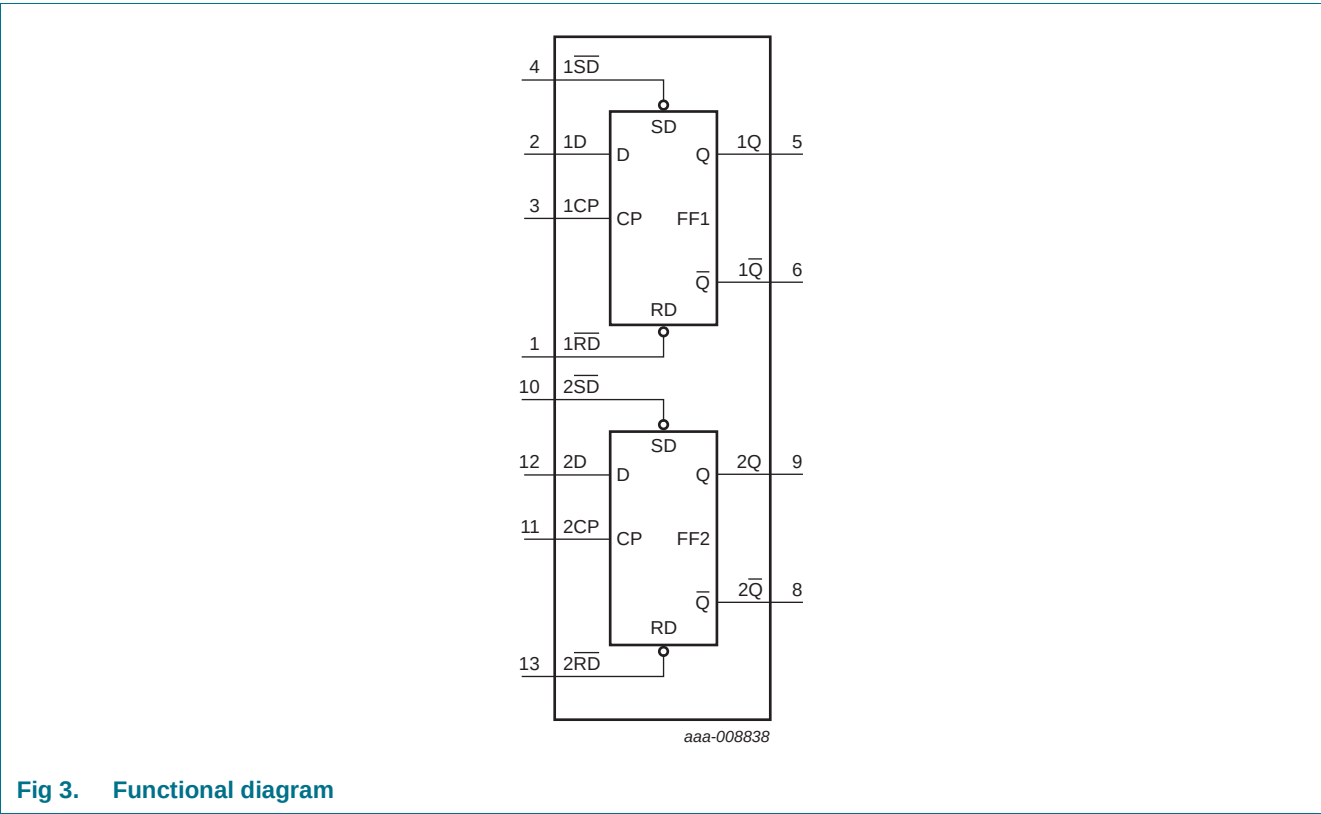
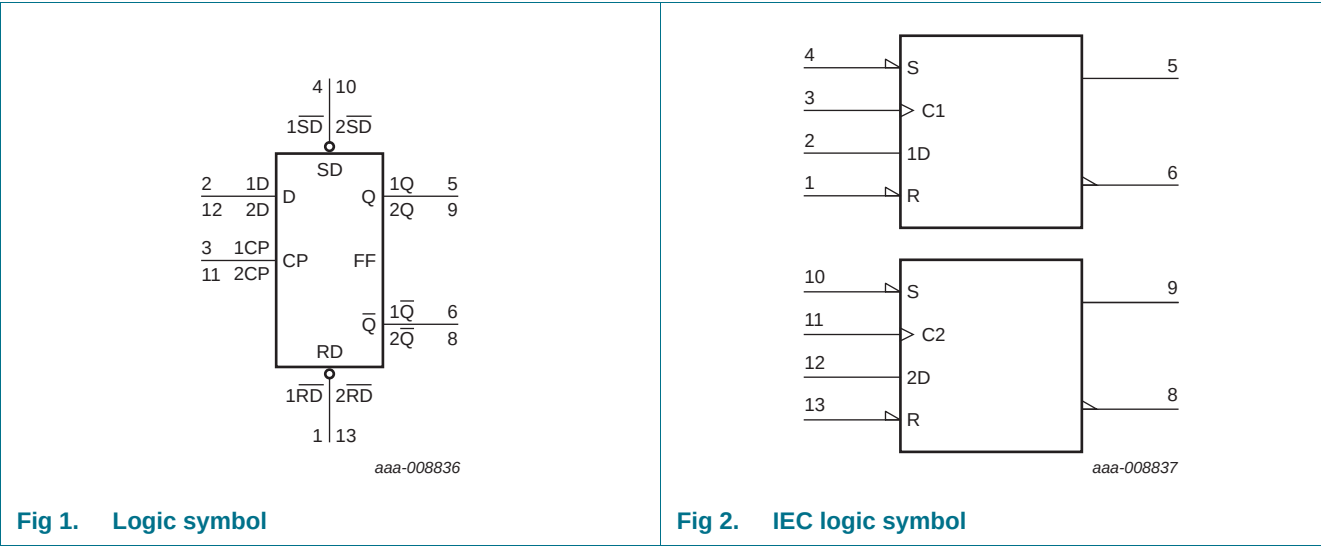
3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LV74N	-40 °C to +125 °C	DIP14	plastic dual in-line package; 14 leads (300 mil)	SOT27-1
74LV74D	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	SOT108-1
74LV74DB	-40 °C to +125 °C	SSOP14	plastic shrink small outline package; 14 leads; body width 5.3 mm	SOT337-1
74LV74PW	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	SOT402-1



4. Functional diagram



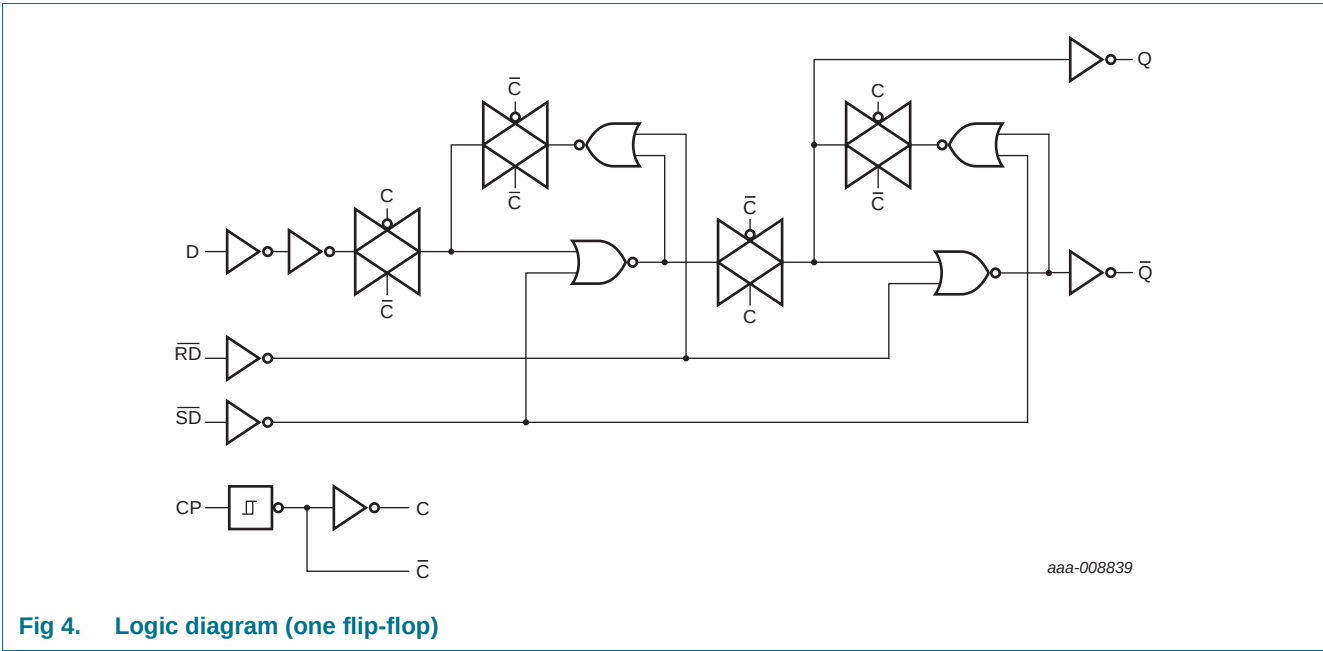


Fig 4. Logic diagram (one flip-flop)

5. Pinning information

5.1 Pinning

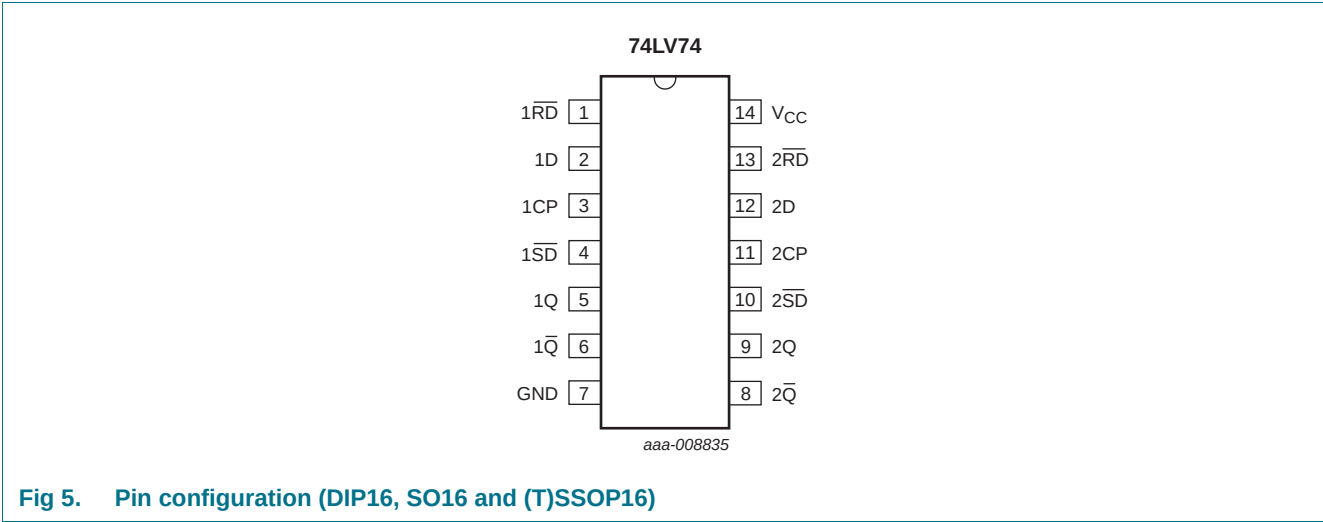


Fig 5. Pin configuration (DIP16, SO16 and (T)SSOP16)

5.2 Pin description

Table 2. Pin description

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

6. Functional description

Table 3. Function table^[1]

Input				Output			
nSD	nRD	nCP	nD	nQ	nQ̄	Q _{n+1}	nQ̄ _{n+1}
L	H	X	X	H	L	-	-
H	L	X	X	L	H	-	-
L	L	X	X	H	H	-	-
H	H	↑	L	-	-	L	H
H	H	↑	H	-	-	H	L

- [1] H = HIGH voltage level;
 L = LOW voltage level;
 X = don't care;
 ↑ = LOW-to-HIGH clock transition;
 Q_{n+1} = state after the next LOW-to-HIGH CP transition

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		-0.5	+7	V
I _{IK}	input clamping current	V _I < -0.5 V or V _I > V _{CC} + 0.5 V	-	20	mA
V _I	input voltage		-0.5	+7	V
I _{OK}	output clamping current	V _O > V _{CC} or V _O < 0	-	±50	mA
I _O	output current	-0.5 V < V _O < V _{CC} + 0.5 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 °C to +125 °C			
		DIP16 package	[2] -	750	mW
		SO16 package	[3] -	500	mW
		(T)SSOP16 package	[4] -	400	mW

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
 [2] P_{tot} derates linearly with 12 mW/K above 70 °C.
 [3] P_{tot} derates linearly with 8 mW/K above 70 °C.
 [4] P_{tot} derates linearly with 5.5 mW/K above 60 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	supply voltage ^[1]		1.0	3.3	5.5	V
V_I	input voltage		0	-	V_{CC}	V
V_O	output voltage		0	-	V_{CC}	V
T_{amb}	ambient temperature		-40	-	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 1.0\text{ V to }2.0\text{ V}$	0	-	500	ns/V
		$V_{CC} = 2.0\text{ V to }2.7\text{ V}$	0	-	200	ns/V
		$V_{CC} = 2.7\text{ V to }3.6\text{ V}$	0	-	100	ns/V
		$V_{CC} = 3.6\text{ V to }5.5\text{ V}$	0	-	50	ns/V

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

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		Unit
			Min	Typ ^[1]	Max	Min	Max	
V _{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	0.9	-	-	0.9	-	V
		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	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	0.7 × V _{CC}	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.2 V	-	-	0.3	-	0.3	V
		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	-	-	0.3 × V _{CC}	-	0.3 × V _{CC}	
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL} ; I _O = –100 µA						
		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 _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL} ; I _O = 100 µA						
		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
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	±1	-	±1	µA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	20	-	80	µA
ΔI _{CC}	additional supply current	V _I = V _{CC} – 0.6 V; V _{CC} = 2.7 V to 3.6 V	-	-	500	-	850	µA
C _I	input capacitance		-	3.5	-			pF

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND (ground = 0 V): for test circuit, see [Figure 8](#)

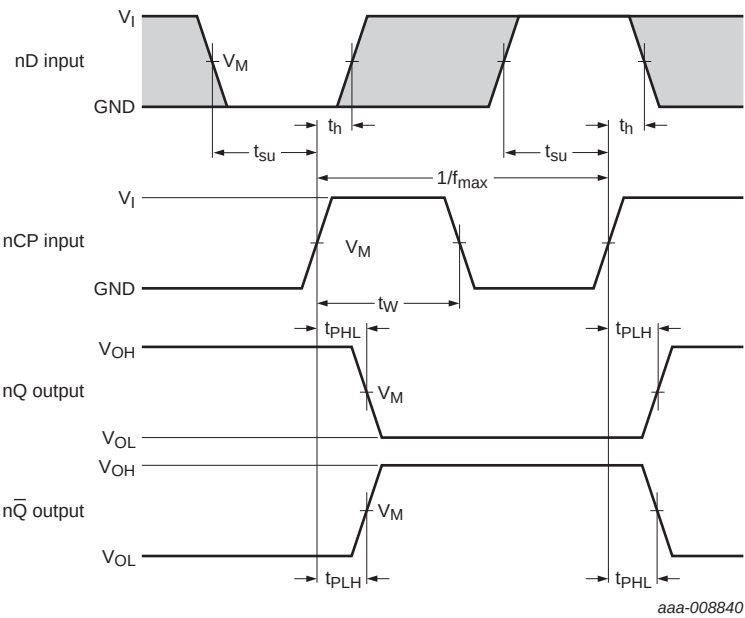
Symbol	Parameter	Conditions	–40 °C to +85 °C			–40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
t_{pd}	propagation delay	nCP to nQ, n $\overline{Q}$; see Figure 6 ^[2]						
		$V_{CC} = 1.2\text{ V}$	-	70	-	-	-	ns
		$V_{CC} = 2.0\text{ V}$	-	24	44	-	56	ns
		$V_{CC} = 2.7\text{ V}$	-	18	28	-	41	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$ ^[3]	-	13	26	-	33	ns
		$V_{CC} = 3.3\text{ V}; C_L = 15\text{ pF}$	-	11	-	-	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ ^[4]	-	9.5	17	-	23	ns
		n $\overline{SD}$ to nQ, n $\overline{Q}$; see Figure 7						
		$V_{CC} = 1.2\text{ V}$	-	90	-	-	-	ns
		$V_{CC} = 2.0\text{ V}$	-	31	46	-	58	ns
		$V_{CC} = 2.7\text{ V}$	-	23	34	-	43	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$ ^[3]	-	17	27	-	34	ns
		$V_{CC} = 3.3\text{ V}; C_L = 15\text{ pF}$	-	14	-	-	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ ^[4]	-	12	19	-	24	ns
		nRD to nQ, n $\overline{Q}$; see Figure 7						
		$V_{CC} = 1.2\text{ V}$	-	90	-	-	-	ns
		$V_{CC} = 2.0\text{ V}$	-	31	46	-	58	ns
		$V_{CC} = 2.7\text{ V}$	-	23	34	-	43	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$ ^[3]	-	17	27	-	34	ns
		$V_{CC} = 3.3\text{ V}; C_L = 15\text{ pF}$	-	14	-	-	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ ^[4]	-	12	19	-	24	ns
t_w	pulse width	nCP input HIGH to LOW; see Figure 6						
		$V_{CC} = 2.0\text{ V}$	34	10	-	41	-	ns
		$V_{CC} = 2.7\text{ V}$	25	8	-	30	-	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$ ^[3]	20	7	-	24	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ ^[4]	15	6	-	18	-	ns
		n $\overline{SD}$ or nRD pulse width LOW; see Figure 7						
		$V_{CC} = 2.0\text{ V}$	34	10	-	41	-	ns
		$V_{CC} = 2.7\text{ V}$	25	8	-	30	-	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$ ^[3]	20	7	-	24	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$ ^[4]	15	6	-	18	-	ns

Table 7. Dynamic characteristics ...continuedGND (ground = 0 V): for test circuit, see [Figure 8](#)

Symbol	Parameter	Conditions	–40 °C to +85 °C			–40 °C to +125 °C		Unit
			Min	Typ ^[1]	Max	Min	Max	
t _{rec}	recovery time	nRD; see Figure 7						
		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
t _{su}	set-up time	nD to nCP; see Figure 6						
		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 Figure 6						
		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	–2	-	3	-	ns
		V _{CC} = 4.5 V to 5.5 V	3	–2	-	3	-	ns
f _{max}	maximum frequency	nCP; see Figure 6						
		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
C _{PD}	power dissipation capacitance	V _I = GND to V _{CC} ^[5]	-	24	-	-	-	pF

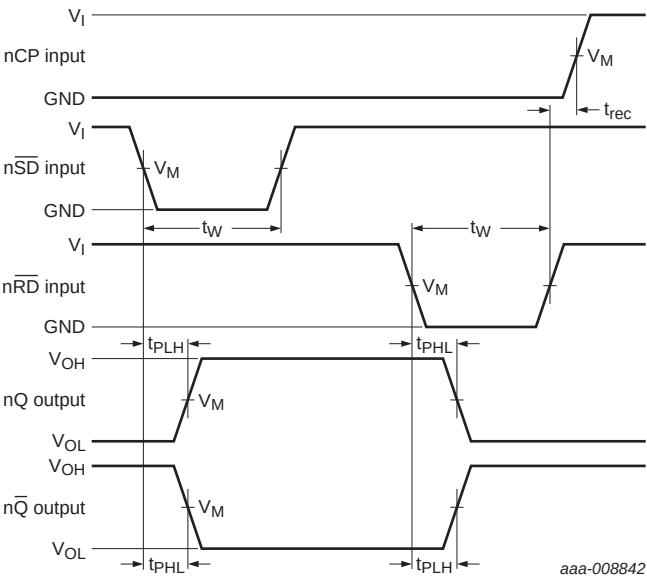
[1] Typical values are measured at T_{amb} = 25 °C.[2] t_{pd} is the same as t_{PHL} and t_{PLH}.[3] Typical value measured at V_{CC} = 3.3 V.[4] Typical values are measured at V_{CC} = 5.0 V.[5] C_{PD} is used to determine the dynamic power dissipation P_D = C_{PD} × V_{CC}² × f_i + Σ (C_L × V_{CC}² × f_o) (P_D in μW), where:f_i = input frequency in MHz;f_o = output frequency in MHz;Σ (C_L × V_{CC}² × f_o) = sum of outputs;C_L = output load capacitance in pF;V_{CC} = supply voltage in V.

11. Waveforms



Measurement points are given in Table 8.
The shaded areas indicate when the input is permitted to change for predictable output performance.

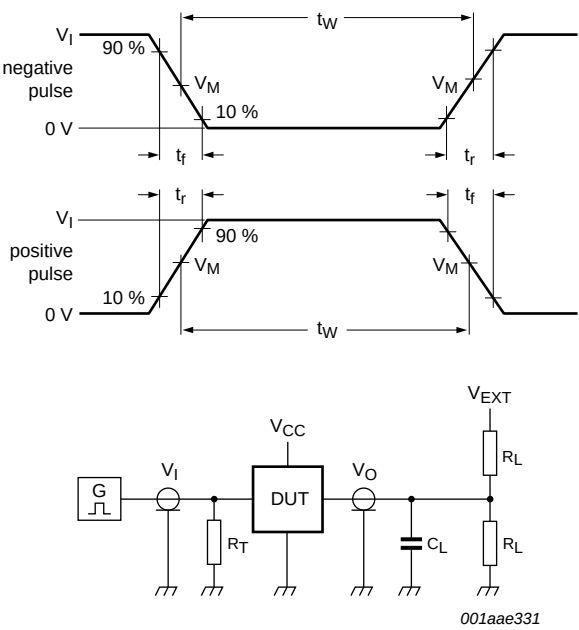
Fig 6. Clock pulse (nCP) to output (nQ, nQ̄) propagation delays, nCP pulse width and maximum frequency



Measurement points are given in Table 8.
Fig 7. The set (nSD) and reset (nRD) input to output (nQ, nQ̄) propagation delays, the set and reset pulse widths and the nRD to nCP recovery time

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	$0.5V_{CC}$	$0.5V_{CC}$



001aae331

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 8. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load		V_{EXT}
	V_I	t_r, t_f	C_L	R_L	t_{PHL}, t_{PLH}
< 2.7 V	V_{CC}	2.5 ns	50 pF	1 k Ω	open
2.7 V to 3.6 V	2.7 V	2.5 ns	50 pF, 15 pF	1 k Ω	open
≥ 4.5 V	V_{CC}	2.5 ns	50 pF	1 k Ω	open

12. Package outline

DIP14: plastic dual in-line package; 14 leads (300 mil)

SOT27-1

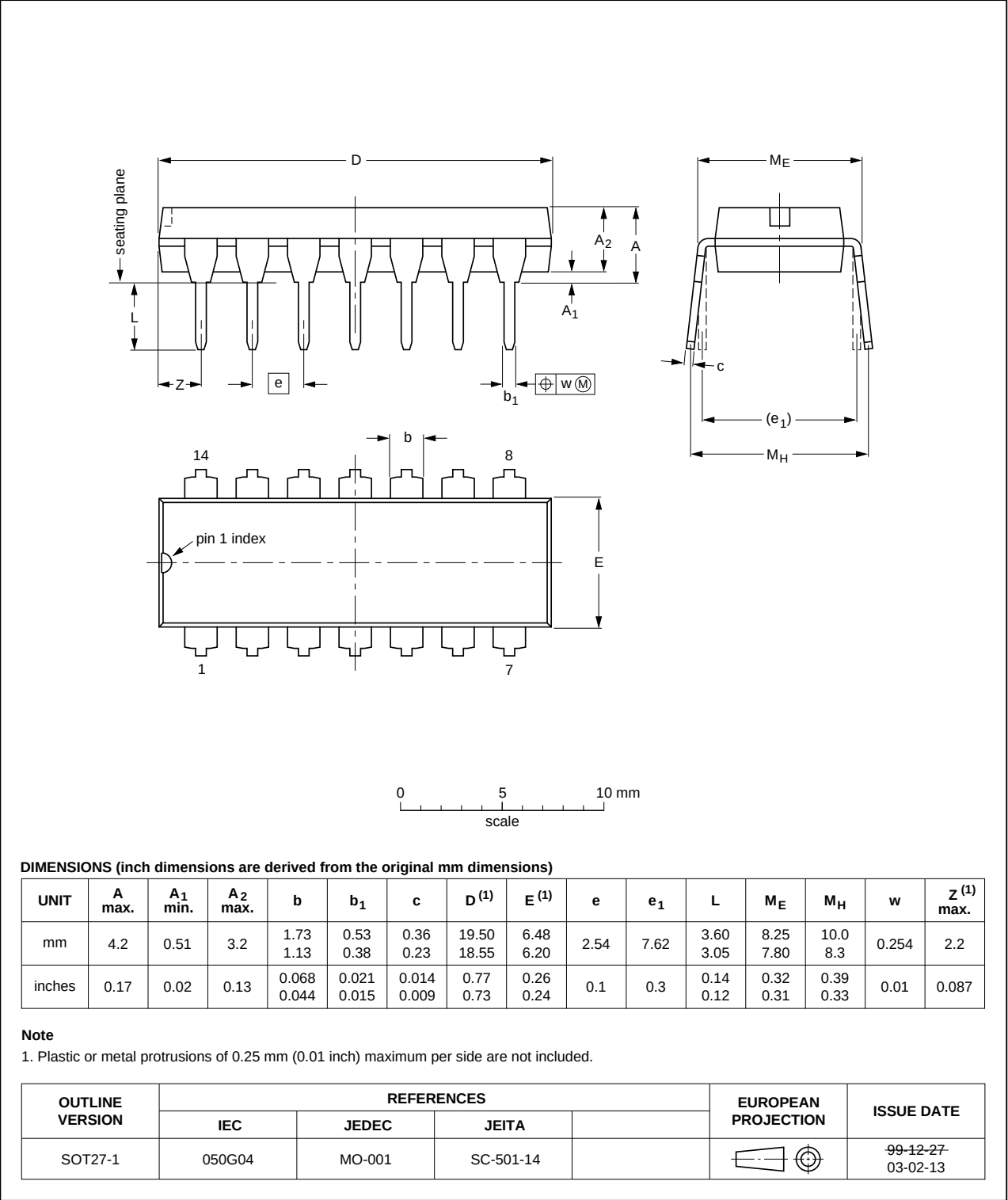


Fig 9. Package outline SOT27-1 (DIP14)

SO14: plastic small outline package; 14 leads; body width 3.9 mm

SOT108-1

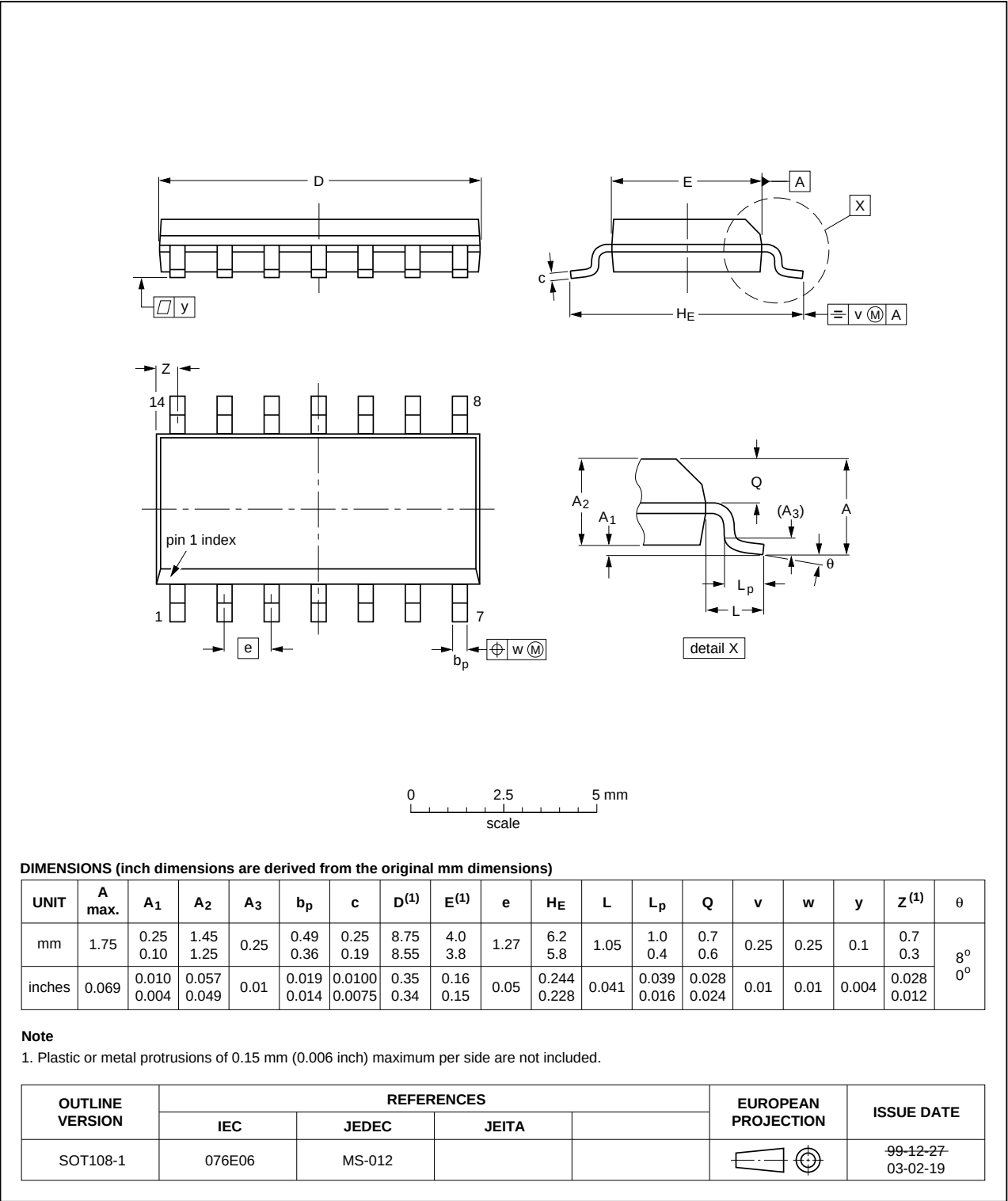


Fig 10. Package outline SOT108-1 (SO14)

SSOP14: plastic shrink small outline package; 14 leads; body width 5.3 mm

SOT337-1

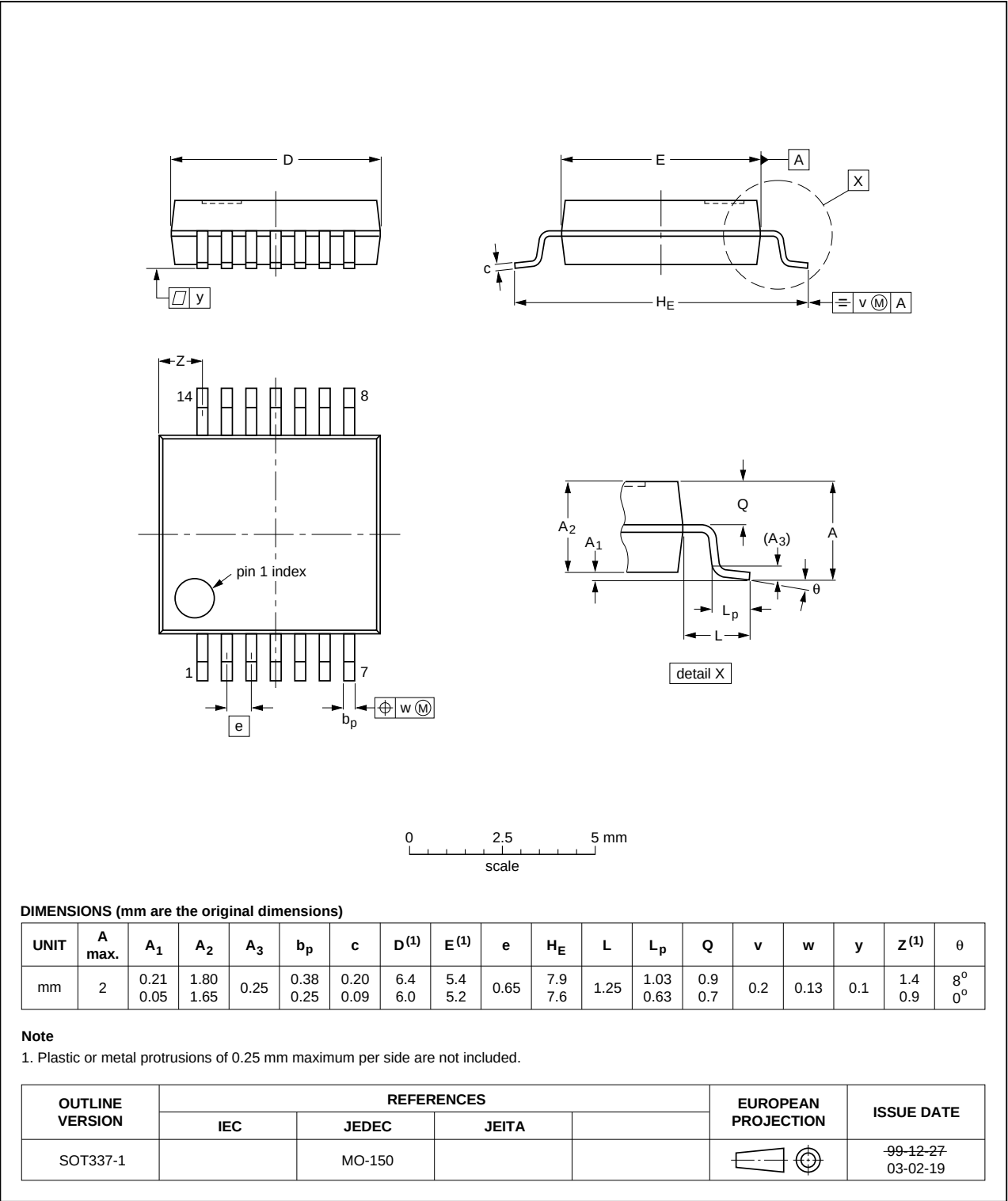


Fig 11. Package outline SOT337-1 (SSOP14)

TSSOP14: plastic thin shrink small outline package; 14 leads; body width 4.4 mm

SOT402-1

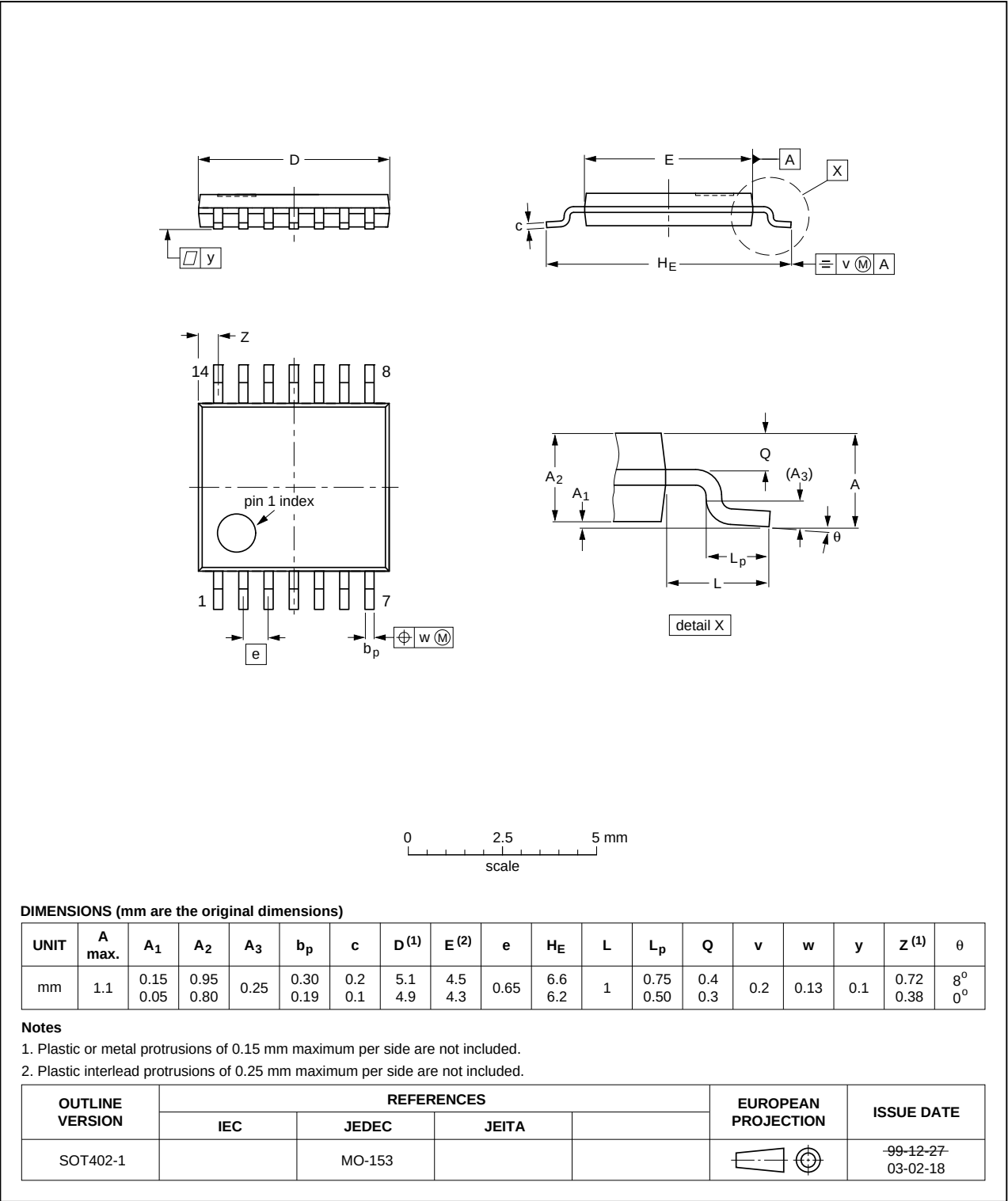


Fig 12. Package outline SOT402-1 (TSSOP14)

13. Abbreviations

Table 10. 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

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV74 v.3	20130909	Product data sheet	-	74LV74_CNV v.2
Modifications:	- The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. - Legal texts have been adapted to the new company name where appropriate. - Family data added, see Section 9 "Static characteristics"			
74LV74_CNV v.2	April 1998	Product specification	-	-

15. Legal information

15.1 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.

[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.nxp.com>.

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