

74LV123

Dual retriggerable monostable multivibrator with reset

Rev. 05 — 8 November 2007

Product data sheet

1. General description

The 74LV123 is a low-voltage Si-gate CMOS device and is pin and function compatible with the 74HC123; 74HCT123. It is a dual retriggerable monostable multivibrator which uses three methods to control the output pulse width:

1. The basic pulse time is programmed by the selection of an external resistor (R_{EXT}) and capacitor (C_{EXT}). These are normally connected as shown in [Figure 9](#).
2. Once triggered, the basic output pulse width may be extended by retriggering the gated active LOW-going edge input ($n\bar{A}$) or the active HIGH-going edge input (nB). By repeating this process, the output pulse period ($nQ = \text{HIGH}$, $n\bar{Q} = \text{LOW}$) can be made as long as desired (see [Figure 12](#)).
3. Alternatively, an output delay can be terminated at any time by a LOW-going edge on input $n\bar{RD}$, which also inhibits the triggering (see [Figure 13](#)).

Schmitt-trigger action in the $n\bar{A}$ and nB inputs makes the circuit highly tolerant of slower input rise and fall times.

2. Features

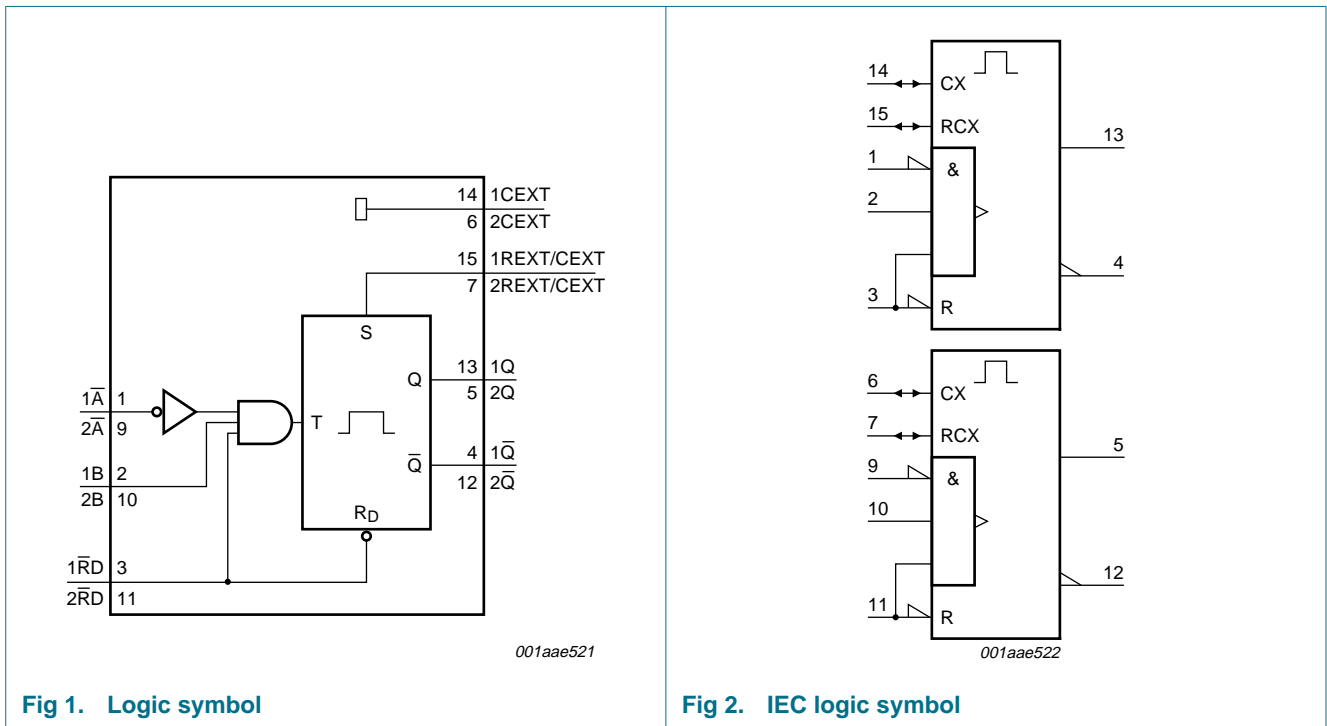
- Optimized for low-voltage applications: 1.0 V to 5.5 V
- Accepts TTL input levels between $V_{CC} = 2.7$ V and $V_{CC} = 3.6$ V
- Typical output ground bounce: < 0.8 V at $V_{CC} = 3.3$ V and $T_{amb} = 25$ °C
- Typical HIGH-level output voltage (V_{OH}) undershoot: > 2 V at $V_{CC} = 3.3$ V and $T_{amb} = 25$ °C
- DC triggered from active HIGH or active LOW inputs
- Retriggerable for very long pulses up to 100 % duty factor
- Direct reset terminates output pulses
- Schmitt-trigger action on all inputs except for the reset input

3. Ordering information

Table 1. Ordering information

Type number	Package			Version
	Temperature range	Name	Description	
74LV123N	-40 °C to +125 °C	DIP16	plastic dual in-line package; 16 leads (300 mil)	SOT38-4
74LV123D	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1
74LV123DB	-40 °C to +125 °C	SSOP16	plastic shrink small outline package; 16 leads; body width 5.3 mm	SOT338-1
74LV123PW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1
74LV123BQ	-40 °C to +125 °C	DHVQFN16	plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 × 3.5 × 0.85 mm	SOT763-1

4. Functional diagram



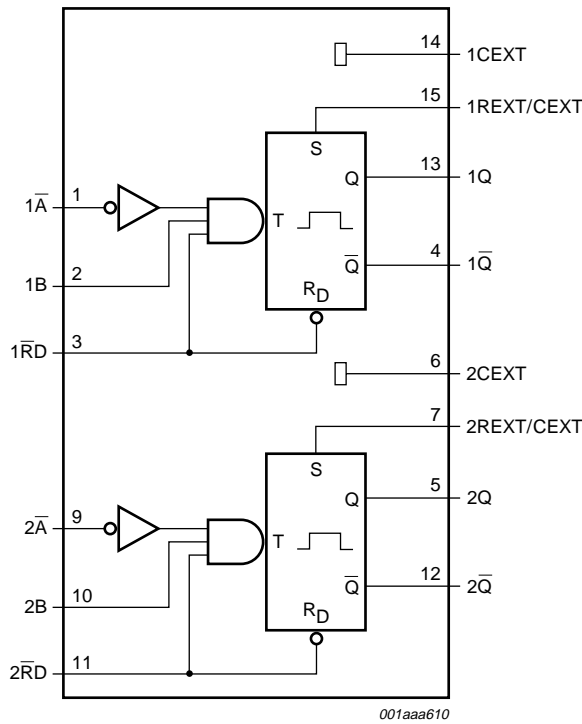


Fig 3. Functional diagram

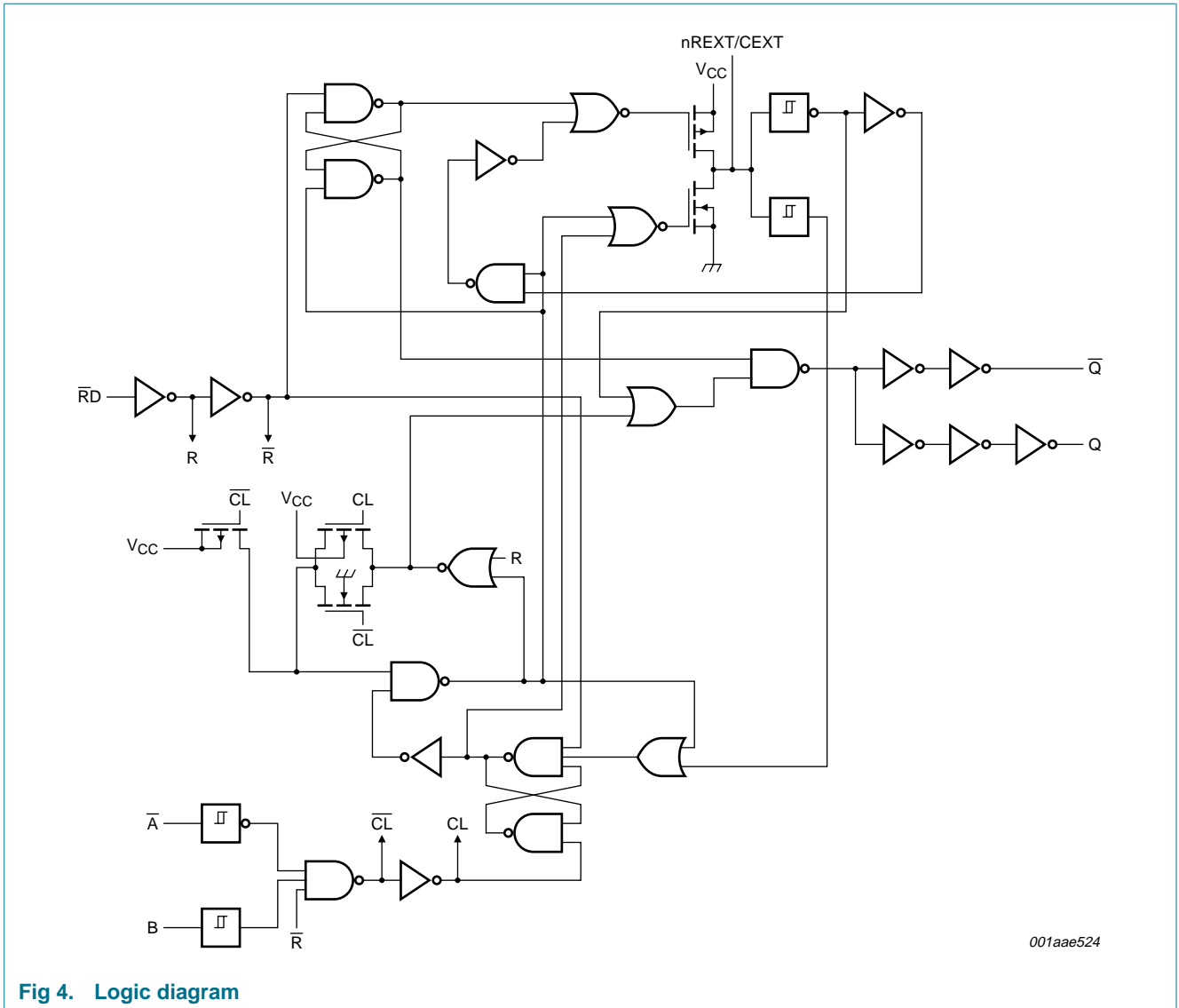
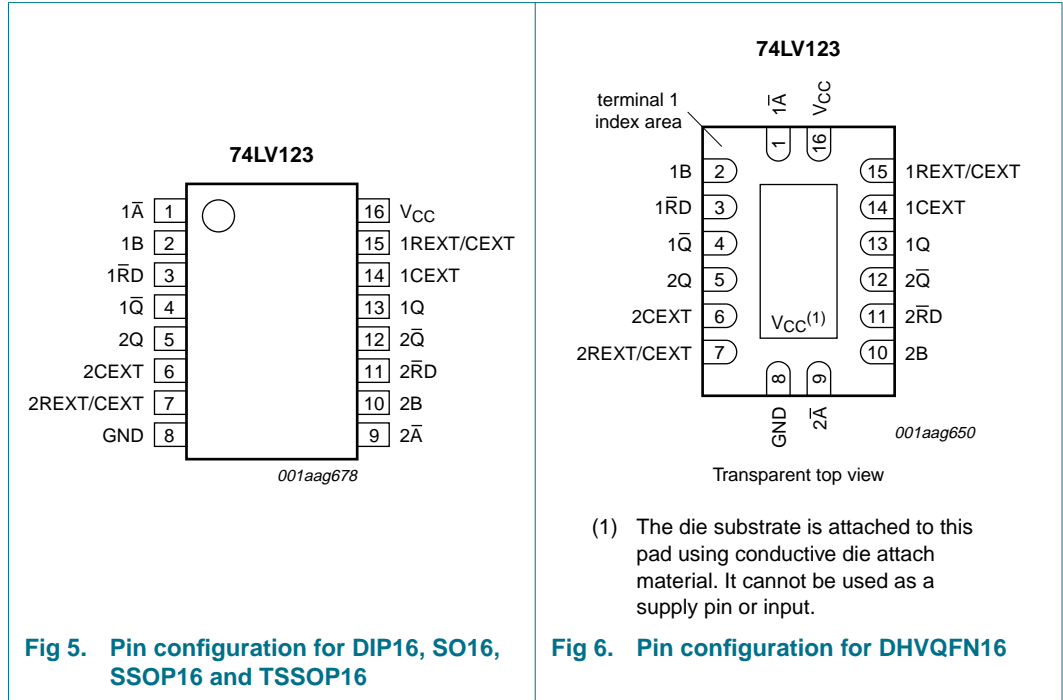


Fig 4. Logic diagram

5. Pinning information

5.1 Pinning









5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1 \bar{A}	1	negative-edge triggered input 1
1B	2	positive-edge triggered input 1
1 \bar{RD}	3	direct reset LOW and positive-edge triggered input 1
1 \bar{Q}	4	active LOW output 1
2Q	5	active HIGH output 2
2CEXT	6	external capacitor connection 2
2REXT/CEXT	7	external resistor and capacitor connection 2
GND	8	ground (0 V)
2 \bar{A}	9	negative-edge triggered input 2
2B	10	positive-edge triggered input 2
2 \bar{RD}	11	direct reset LOW and positive-edge triggered input 2
2 \bar{Q}	12	active LOW output 2
1Q	13	active HIGH output 1
1CEXT	14	external capacitor connection 1
1REXT/CEXT	15	external resistor and capacitor connection 1
V _{CC}	16	supply voltage


6. Functional description

Table 3. Function table^[1]

Input			Output	
nRD	nA	nB	nQ	nQ
L	X	X	L	H
X	H	X	L ^[2]	H ^[2]
X	X	L	L ^[2]	H ^[2]
H	L	↑		
H	↓	H		
↑	L	H		

- [1] H = HIGH voltage level;
 L = LOW voltage level;
 X = don't care;
 ↑ = LOW-to-HIGH transition;
 ↓ = HIGH-to-LOW transition;

 = one HIGH level output pulse

 = one LOW level output pulse

- [2] If the monostable multivibrator was triggered before this condition was established, the pulse will continue as programmed.

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	$V_I < -0.5\text{ V}$ or $V_I > V_{CC} + 0.5\text{ V}$	[1] -	±20	mA
I_{OK}	output clamping current	$V_O < -0.5\text{ V}$ or $V_O > V_{CC} + 0.5\text{ V}$	[1] -	±50	mA
I_O	output current	except for pins nREXT/CEXT; $V_O = -0.5\text{ V}$ to $(V_{CC} + 0.5\text{ V})$	[1] -	±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	$T_{amb} = -40\text{ °C}$ to $+125\text{ °C}$			
		DIP16 package	[2] -	750	mW
		SO16 package	[3] -	500	mW
		SSOP16 package	[4] -	500	mW
		TSSOP16 package	[4] -	500	mW
		DHVQFN16 package	[5] -	500	mW

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- [2] For DIP16 package: P_{tot} derates linearly with 12 mW/K above 70 °C.
- [3] For SO16 package: P_{tot} derates linearly with 8 mW/K above 70 °C.
- [4] For SSOP16 and TSSOP16 packages: P_{tot} derates linearly with 5.5 mW/K above 60 °C.
- [5] For DHVQFN16 package: P_{tot} derates linearly with 4.5 mW/K above 60 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

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	in free air	-40	+25	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate [2]	$V_{CC} = 1.0\text{ V}$ to 2.0 V	-	-	500	ns/V
		$V_{CC} = 2.0\text{ V}$ to 2.7 V	-	-	200	ns/V
		$V_{CC} = 2.7\text{ V}$ to 3.6 V	-	-	100	ns/V
		$V_{CC} = 3.6\text{ V}$ to 5.5 V	-	-	50	ns/V

- [1] The 74LV123 is guaranteed to function down to $V_{CC} = 1.0\text{ V}$ (input levels GND or V_{CC}); [Section 9 “Static characteristics”](#) are guaranteed from $V_{CC} = 1.2\text{ V}$ to $V_{CC} = 5.5\text{ V}$.
- [2] Except for Schmitt-trigger inputs n \bar{A} and nB.

9. Static characteristics

Table 6. Static characteristics

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

Symbol	Parameter	Conditions	Min	Typ ^[1]	Max	Unit
T_{amb} = -40 °C to +85 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	0.9	-	-	V
		V _{CC} = 2.0 V	1.4	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.2 V	-	-	0.3	V
		V _{CC} = 2.0 V	-	-	0.6	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3 × V _{CC}	V
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
		I _O = -100 μA; V _{CC} = 2.0 V	1.8	2.0	-	V
		I _O = -100 μA; V _{CC} = 2.7 V	2.5	2.7	-	V
		I _O = -100 μA; V _{CC} = 3.0 V	2.8	3.0	-	V
		I _O = -100 μA; V _{CC} = 4.5 V	4.3	4.5	-	V
		I _O = -6 mA; V _{CC} = 3.0 V	2.40	2.82	-	V
		I _O = -12 mA; V _{CC} = 4.5 V	3.60	4.20	-	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
		I _O = 100 μA; V _{CC} = 2.0 V	-	0	0.2	V
		I _O = 100 μA; V _{CC} = 2.7 V	-	0	0.2	V
		I _O = 100 μA; V _{CC} = 3.0 V	-	0	0.2	V
		I _O = 100 μA; V _{CC} = 4.5 V	-	0	0.2	V
		I _O = 6 mA; V _{CC} = 3.0 V	-	0.25	0.40	V
		I _O = 12 mA; V _{CC} = 4.5 V	-	0.35	0.55	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	1.0	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	20.0	μA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 0.6 V; V _{CC} = 2.7 V to 3.6 V	-	-	500	μA
C _I	input capacitance		-	3.5	-	pF
T_{amb} = -40 °C to +125 °C						
V _{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	0.9	-	-	V
		V _{CC} = 2.0 V	1.4	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.2 V	-	-	0.3	V
		V _{CC} = 2.0 V	-	-	0.6	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3 × V _{CC}	V

Table 6. Static characteristics ...continued

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

Symbol	Parameter	Conditions	Min	Typ ^[1]	Max	Unit
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = -100 μA; V _{CC} = 1.2 V	-	-	-	V
		I _O = -100 μA; V _{CC} = 2.0 V	1.8	-	-	V
		I _O = -100 μA; V _{CC} = 2.7 V	2.5	-	-	V
		I _O = -100 μA; V _{CC} = 3.0 V	2.8	-	-	V
		I _O = -100 μA; V _{CC} = 4.5 V	4.3	-	-	V
		I _O = -6 mA; V _{CC} = 3.0 V	2.2	-	-	V
		I _O = -12 mA; V _{CC} = 4.5 V	3.5	-	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = 100 μA; V _{CC} = 1.2 V	-	-	-	V
		I _O = 100 μA; V _{CC} = 2.0 V	-	-	0.2	V
		I _O = 100 μA; V _{CC} = 2.7 V	-	-	0.2	V
		I _O = 100 μA; V _{CC} = 3.0 V	-	-	0.2	V
		I _O = 100 μA; V _{CC} = 4.5 V	-	-	0.2	V
		I _O = 6 mA; V _{CC} = 3.0 V	-	-	0.5	V
		I _O = 12 mA; V _{CC} = 4.5 V	-	-	0.65	V
I _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	1.0	μA
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 5.5 V	-	-	160	μA
ΔI _{CC}	additional supply current	V _I = V _{CC} - 0.6 V; V _{CC} = 2.7 V to 3.6 V	-	-	850	μA

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

10. Dynamic characteristics

Table 7. Dynamic characteristics

$GND = 0\text{ V}$; $t_r = t_f \leq 2.5\text{ ns}$; 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	
Propagation delay; see Figure 7								
t_{pd}	propagation delay	$n\overline{RD}$, $n\overline{A}$ and nB to $n\overline{Q}$	[2]					
		$V_{CC} = 1.2\text{ V}$	-	120	-	-	-	ns
		$V_{CC} = 2.0\text{ V}$	-	40	76	-	92	ns
		$V_{CC} = 2.7\text{ V}$	-	30	56	-	68	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	-	25	48	-	57	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	-	18	40	-	46	ns
		$n\overline{RD}$ to nQ (reset)	[2]					
		$V_{CC} = 1.2\text{ V}$	-	100	-	-	-	ns
		$V_{CC} = 2.0\text{ V}$	-	30	57	-	68	ns
		$V_{CC} = 2.7\text{ V}$	-	23	43	-	51	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	-	20	38	-	45	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	-	14	31	-	36	ns
Inputs $n\overline{A}$, nB and $n\overline{RD}$; see Figure 7								
t_w	pulse width	$n\overline{A} = \text{LOW}$						
		$V_{CC} = 2.0\text{ V}$	30	5	-	40	-	ns
		$V_{CC} = 2.7\text{ V}$	25	3.5	-	30	-	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	20	3.0	-	25	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	15	2.5	-	20	-	ns
		$nB = \text{HIGH}$						
		$V_{CC} = 2.0\text{ V}$	30	13	-	40	-	ns
		$V_{CC} = 2.7\text{ V}$	25	8	-	30	-	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	20	7	-	25	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	15	5	-	20	-	ns
		$n\overline{RD} = \text{LOW}$; see Figure 13						
		$V_{CC} = 2.0\text{ V}$	35	6	-	45	-	ns
		$V_{CC} = 2.7\text{ V}$	30	5	-	40	-	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	25	4	-	30	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	20	3	-	25	-	ns
t_{trig}	retrigger time	nB to $n\overline{A}$; see Figure 12						
		$V_{CC} = 2.0\text{ V}$	-	70	-	-	-	ns
		$V_{CC} = 2.7\text{ V}$	-	55	-	-	-	ns
		$V_{CC} = 3.0\text{ V to }3.6\text{ V}$	-	45	-	-	-	ns
		$V_{CC} = 4.5\text{ V to }5.5\text{ V}$	-	40	-	-	-	ns

11. Waveforms

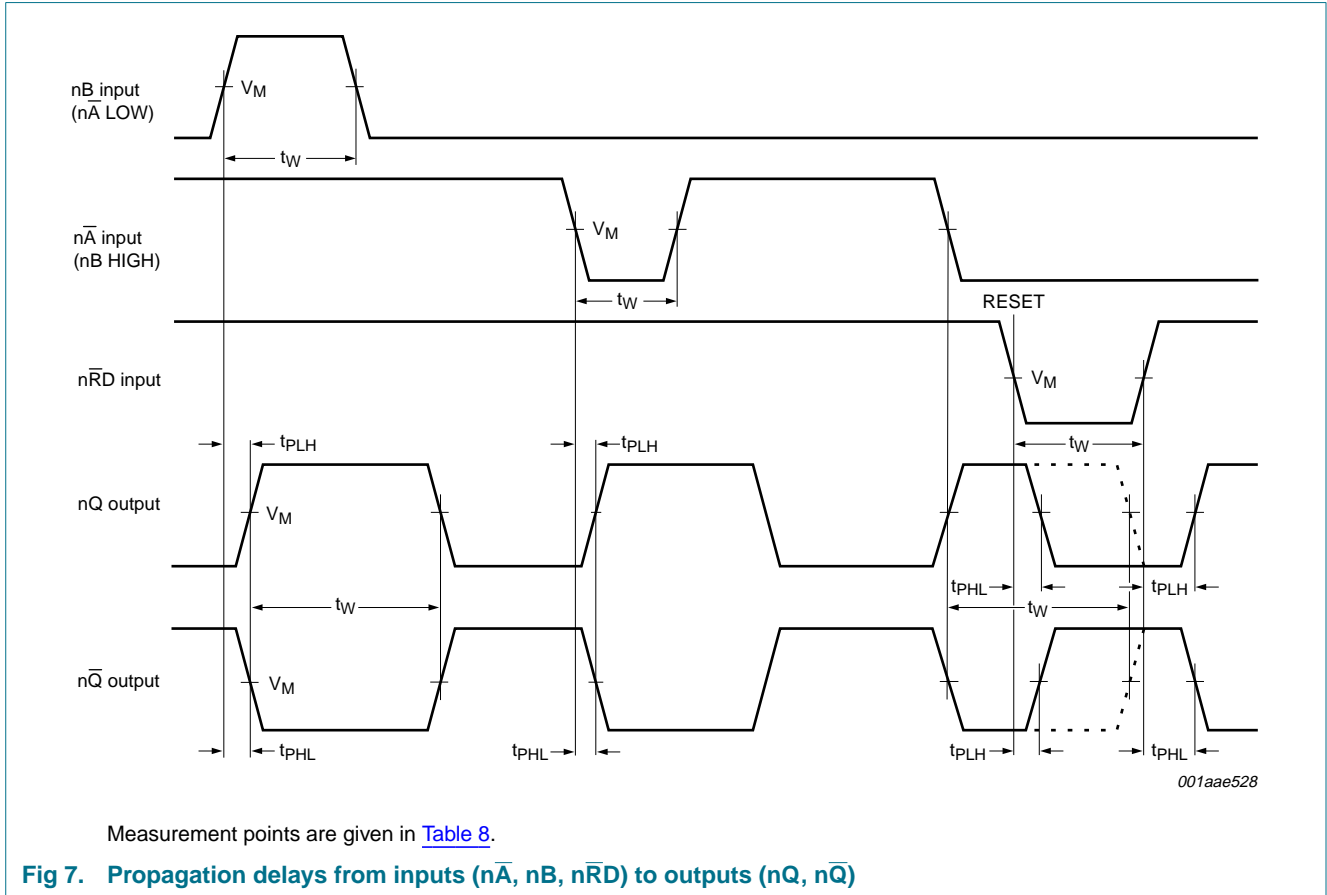


Table 8. Measurement points

V_{CC}	V_M
$\geq 2.7 V$	1.5 V
$< 2.7 V$	$0.5 \times V_{CC}$

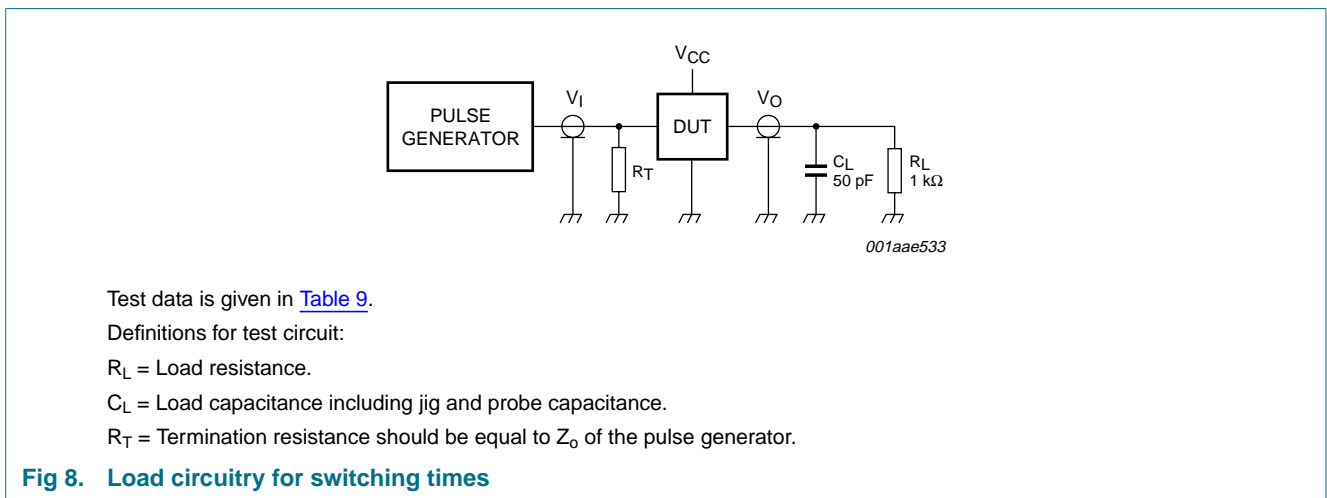


Table 9. Test data

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

12. Application information

12.1 Timing components

12.1.1 Basic timing

The basic output pulse width is essentially determined by the values of the external timing components R_{EXT} and C_{EXT} .

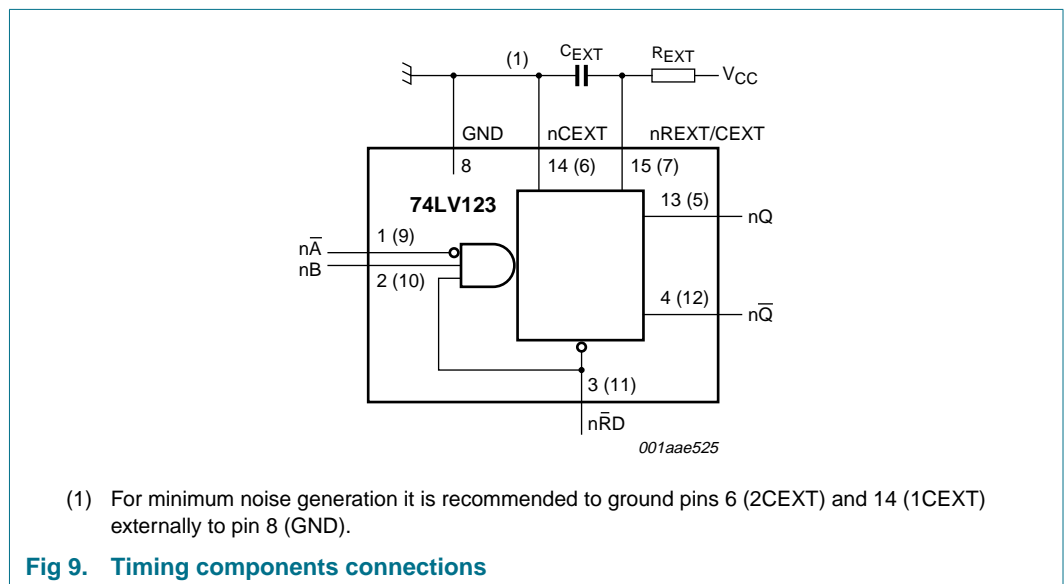


Fig 9. Timing components connections

If $C_{EXT} > 10$ nF, the following formula is valid: $t_W = K \times R_{EXT} \times C_{EXT}$ (typ.) where:

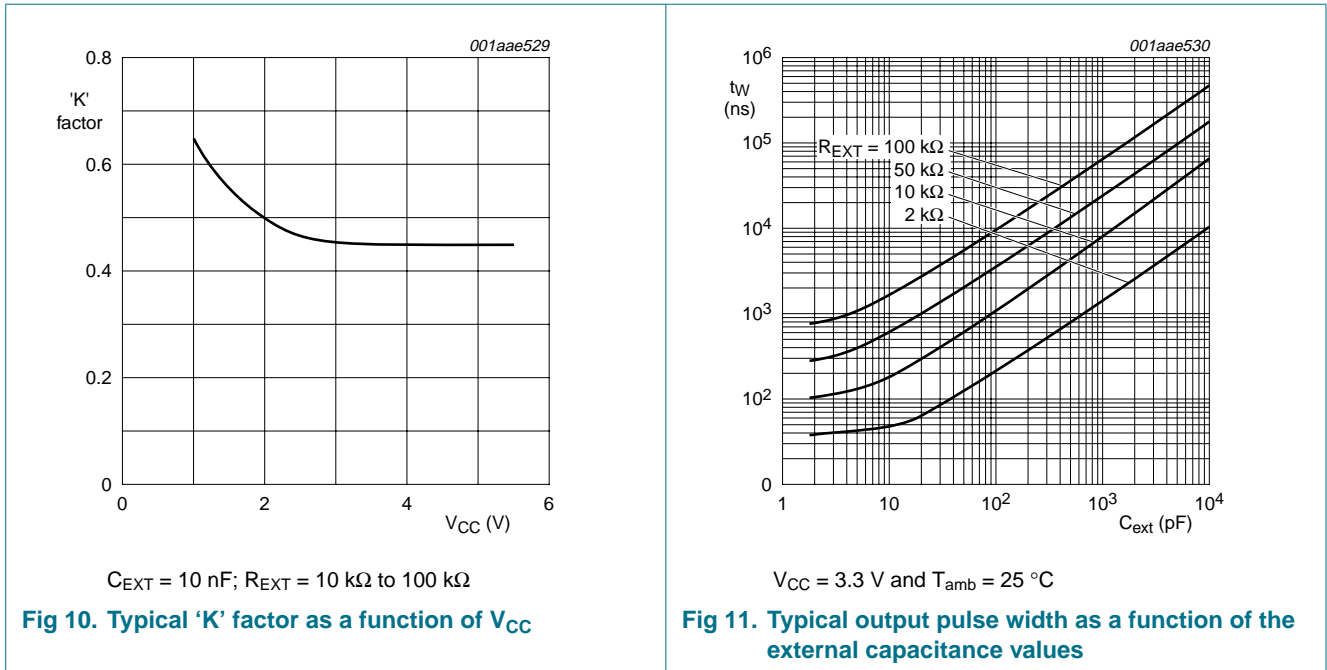
t_W = output pulse width in ns

R_{EXT} = external resistor in k Ω

C_{EXT} = external capacitor in pF

K = constant: this is 0.45 for $V_{CC} = 5.0$ V and 0.48 for $V_{CC} = 2.0$ V (see [Figure 10](#))

The inherent test jig and pin capacitance at pin 15 and pin 7 (nREXT/CEXT) is approximately 7 pF.



12.1.2 Retrigger timing

The time to retrigger the monostable multivibrator depends on the values of R_{EXT} and C_{EXT}. The output pulse width will only be extended when the time between the active going edges of the trigger pulses meets the minimum retrigger time. If C_{EXT} > 10 pF, the next formula for the set-up time of a retrigger pulse is valid:

at V_{CC} = 5.0 V: $t_{rtrig} = 30 + 0.19R_{EXT} \times C_{EXT}^{0.9} + 13 \times R_{EXT}^{1.05}$ (typ.)

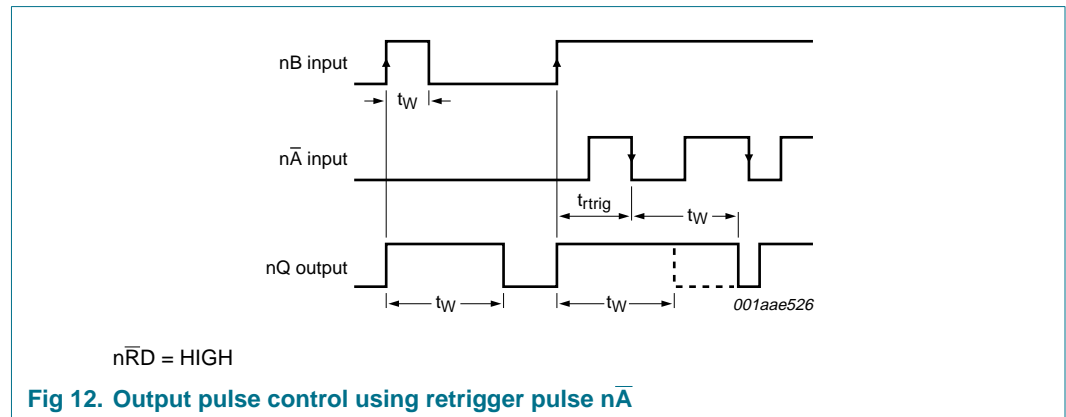
at V_{CC} = 3.0 V: $t_{rtrig} = 41 + 0.15R_{EXT} \times C_{EXT}^{0.9} \times 1 \times R_{EXT}$ (typ.)

where:

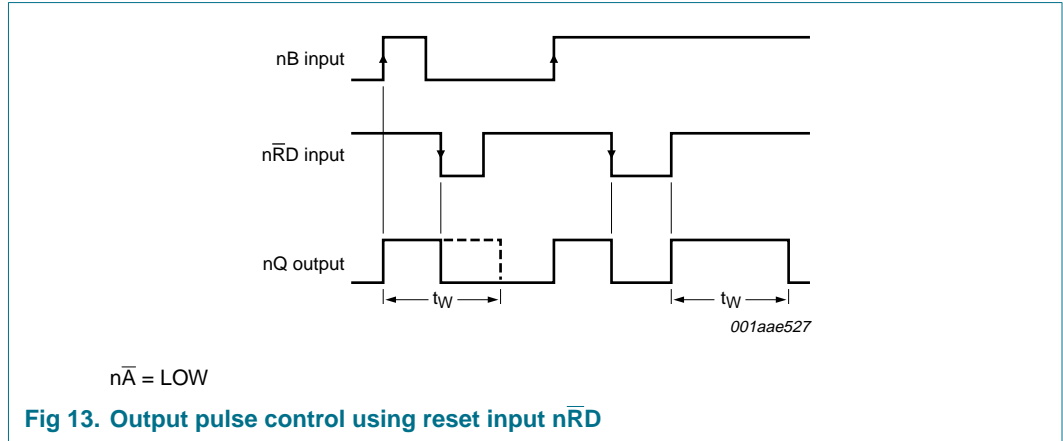
t_{rtrig} = retrigger time in ns

C_{EXT} = external capacitor in pF

R_{EXT} = external resistor in kΩ



12.1.3 Reset timing



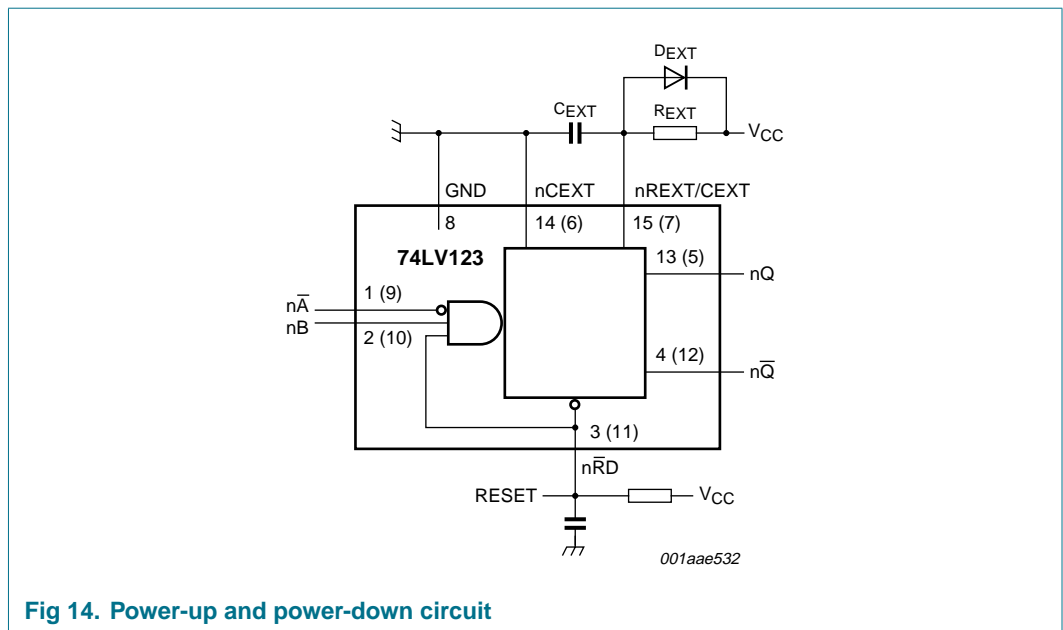
12.2 Power considerations

12.2.1 Power-up

When the monostable multivibrator is powered-up, it may produce an output pulse with a pulse width defined by the values of R_{EXT} and C_{EXT} . This output pulse can be eliminated using the RC circuit on pin $n\bar{RD}$ shown in [Figure 14](#).

12.2.2 Power-down

A large capacitor (C_{EXT}) may cause problems when powering-down the monostable due to the energy stored in this capacitor. When a system containing this device is powered-down or a rapid decrease of V_{CC} to zero occurs, the monostable may sustain damage, due to the capacitor discharging through the input protection diodes. To avoid this possibility, connect a damping diode D_{EXT} (preferably a germanium or Schottky type diode) able to withstand large current surges - see [Figure 14](#).



13. Package outline

DIP16: plastic dual in-line package; 16 leads (300 mil)

SOT38-4

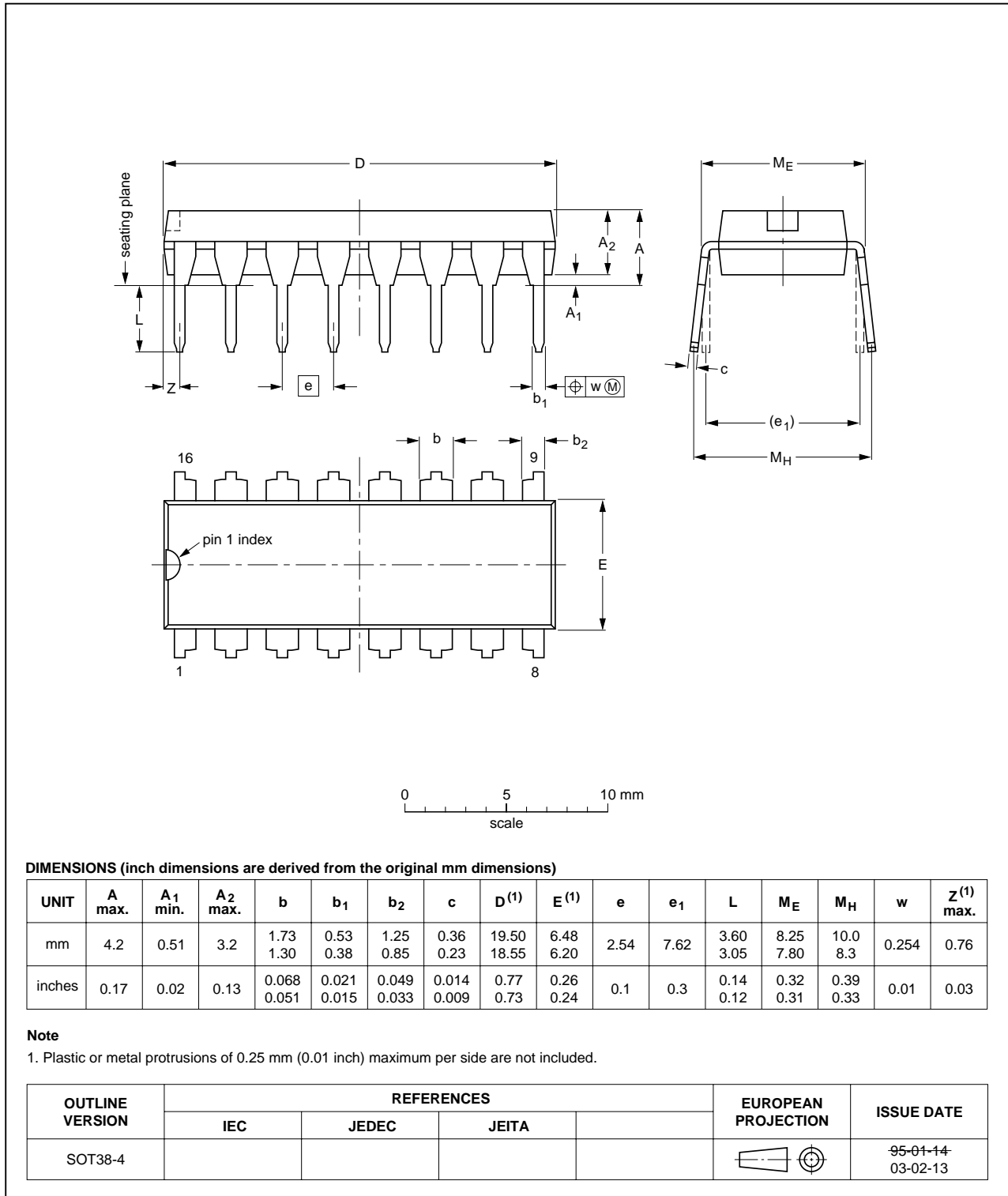


Fig 15. Package outline SOT38-4 (DIP16)

SO16: plastic small outline package; 16 leads; body width 3.9 mm

SOT109-1

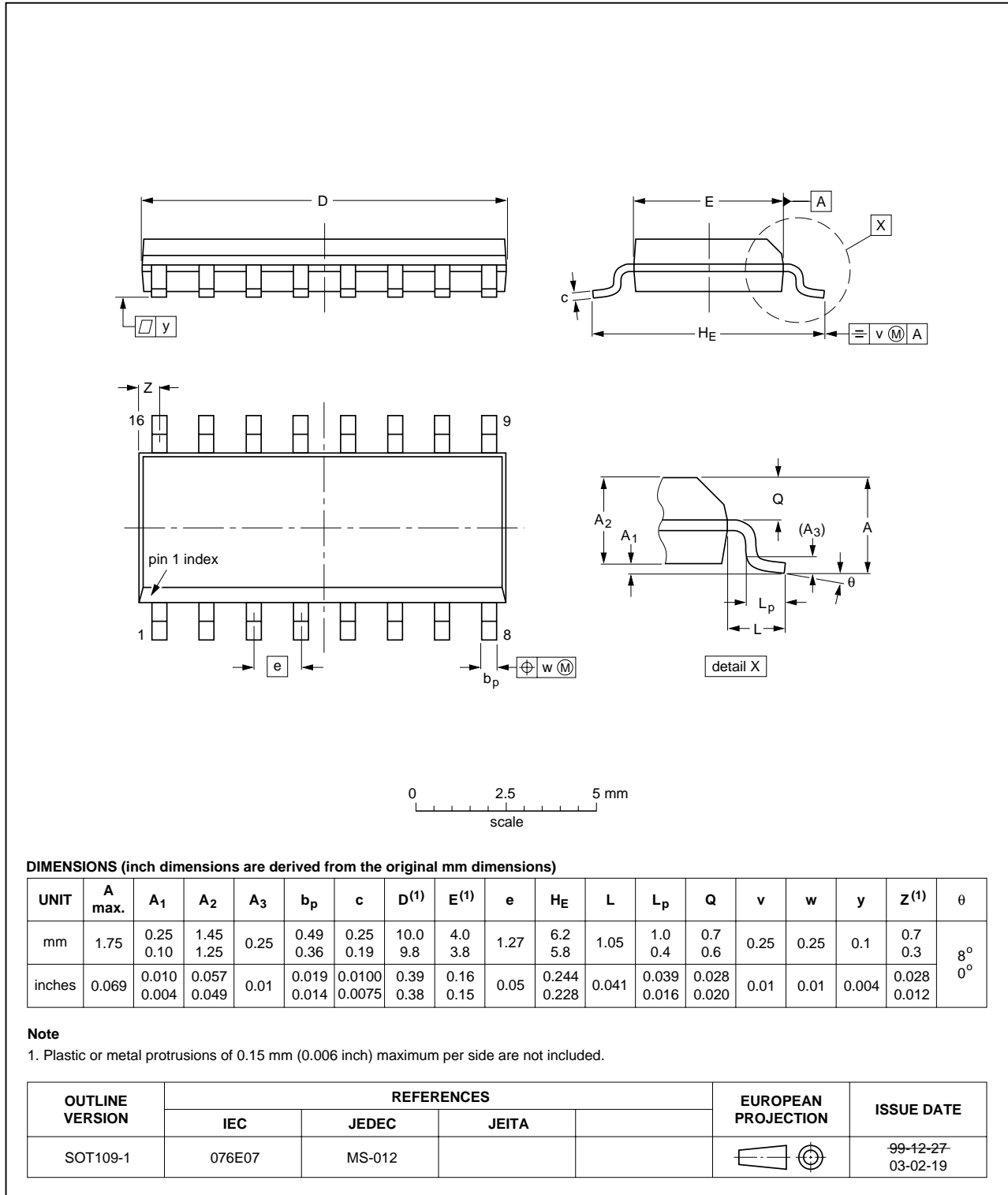


Fig 16. Package outline SOT109-1 (SO16)

SSOP16: plastic shrink small outline package; 16 leads; body width 5.3 mm

SOT338-1

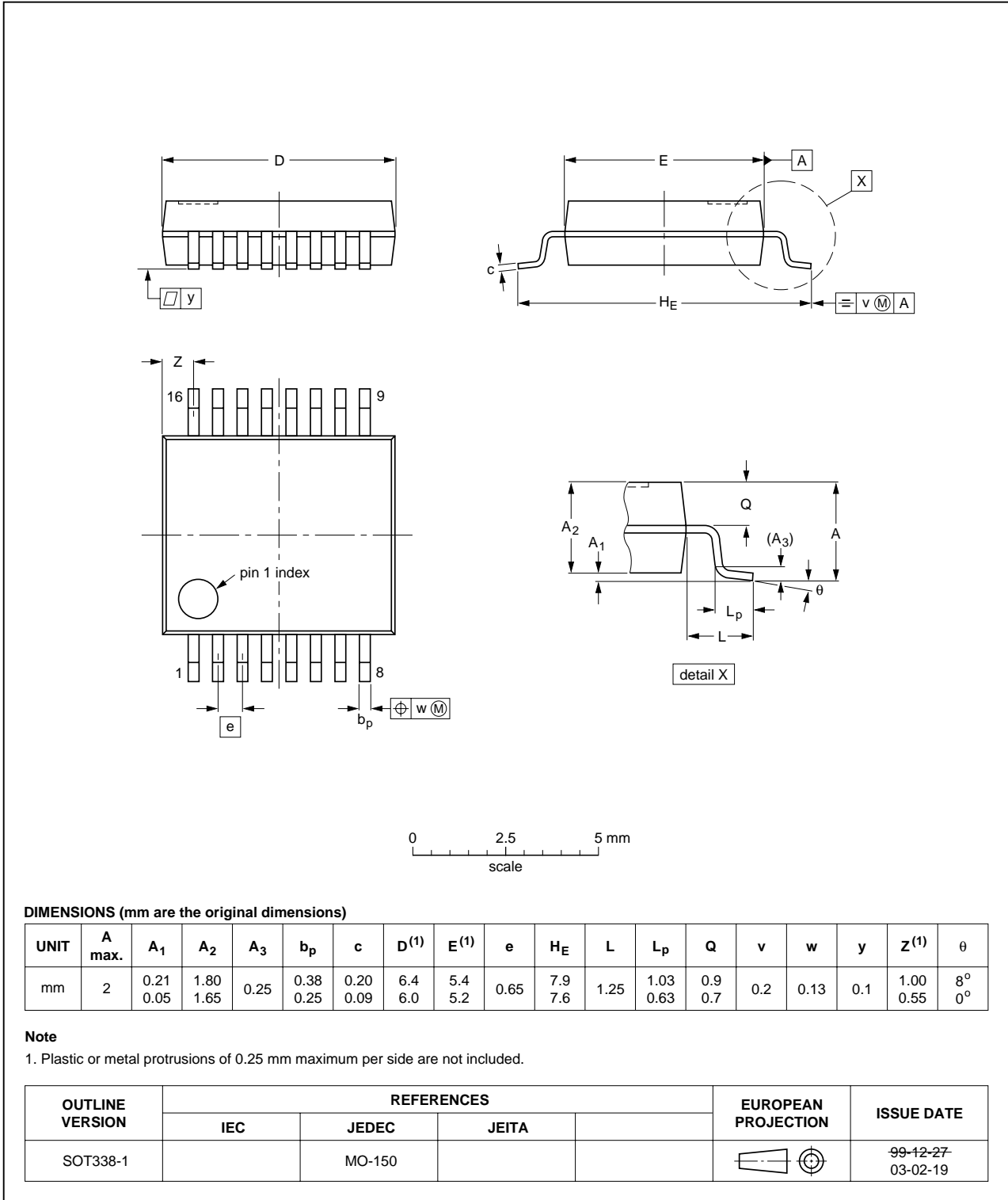


Fig 17. Package outline SOT338-1 (SSOP16)

TSSOP16: plastic thin shrink small outline package; 16 leads; body width 4.4 mm

SOT403-1

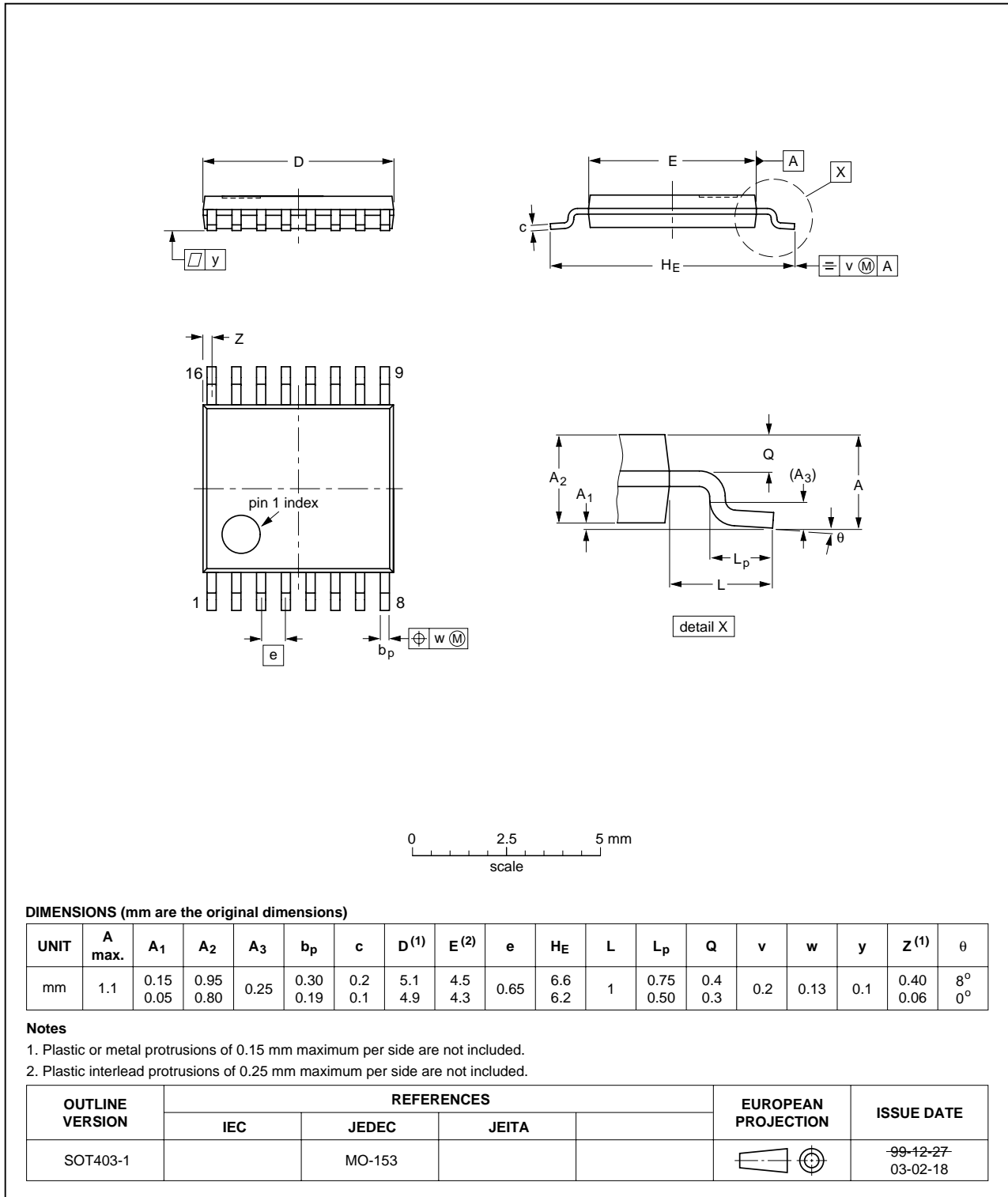


Fig 18. Package outline SOT403-1 (TSSOP16)

DHVQFN16: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 16 terminals; body 2.5 x 3.5 x 0.85 mm

SOT763-1

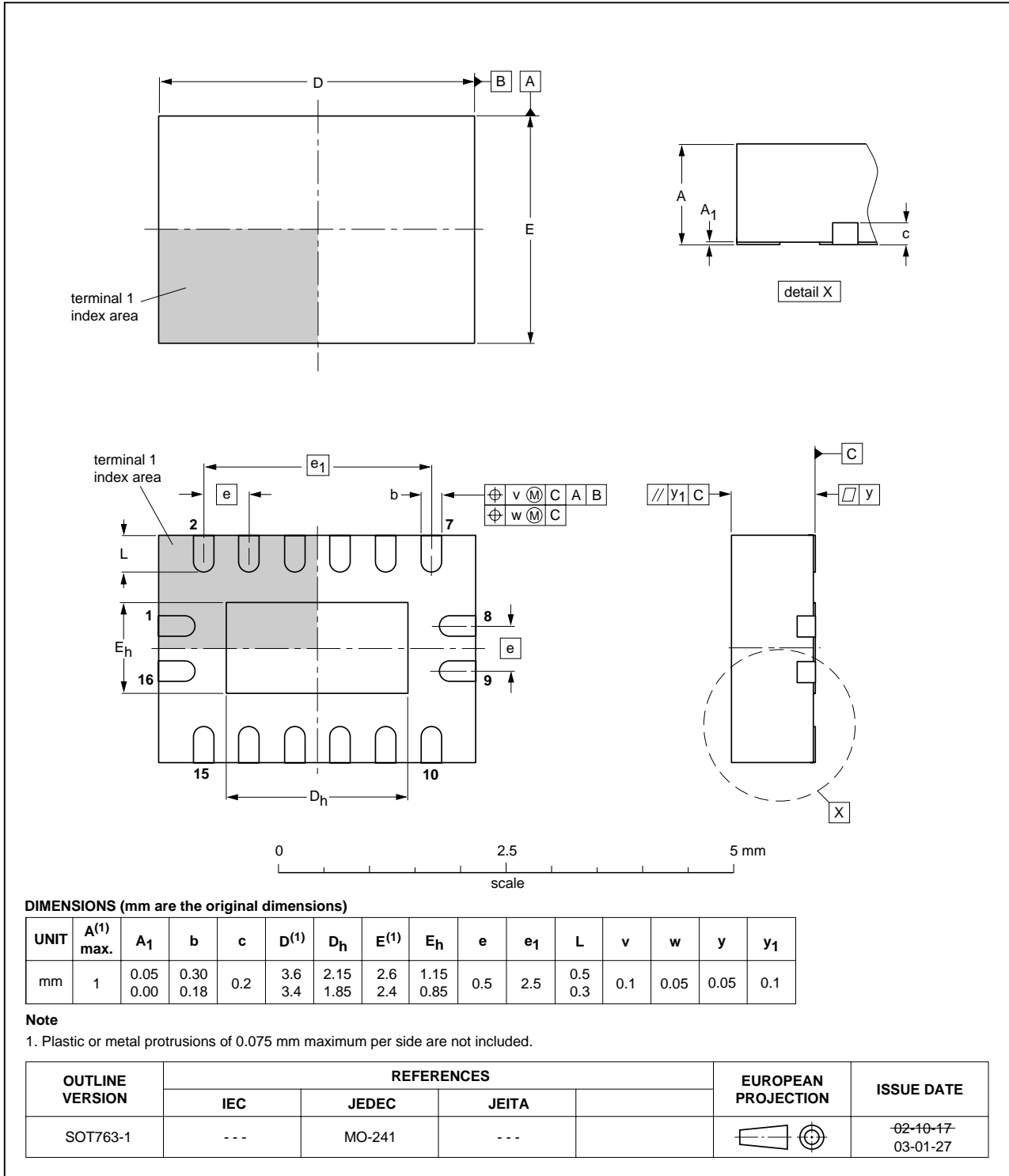


Fig 19. Package outline SOT736-1 (DHVQFN16)

14. Revision history

Table 10. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV123_5	20071108	Product data sheet	-	74LV123_4
Modifications:	• Changed: SOT38-1 changed into SOT38-4			
74LV123_4	20070919	Product specification	-	74LV123_3
74LV123_3	20030313	Product specification	-	74LV123_2
74LV123_2	19980420	Product specification	-	74LV123_1
74LV123_1	19970204	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".

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