74LV123Dual retriggerable monostable multivibrator with resetRev. 8 - 4 March 2016Product 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 ($n\overline{A}$) or the active HIGH-going edge input (nB). By repeating this process, the output pulse period (nQ = HIGH, $n\overline{Q} = LOW$) can be made as long as desired (see Figure 12).
- Alternatively, an output delay can be terminated at any time by a LOW-going edge on input nRD, which also inhibits the triggering (see Figure 13).

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

2. Features and benefits

- 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

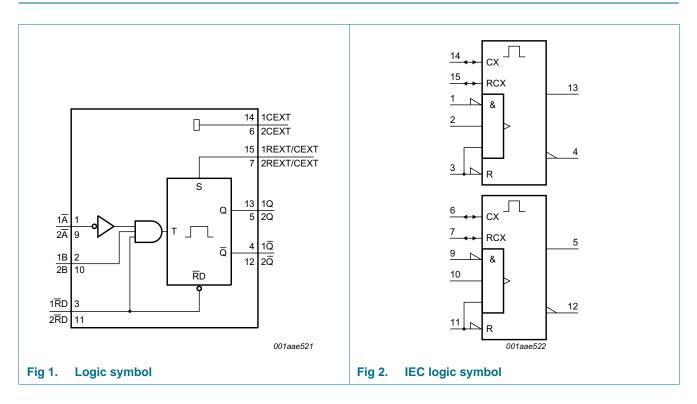
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3. Ordering information

Table 1. Ordering information

Type number Package						
	Temperature range Name Description					
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 $2.5 \times 3.5 \times 0.85$ mm	SOT763-1		

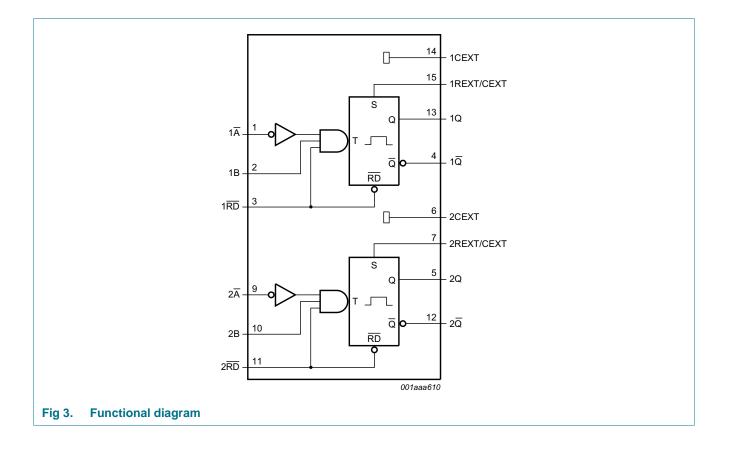
4. Functional diagram



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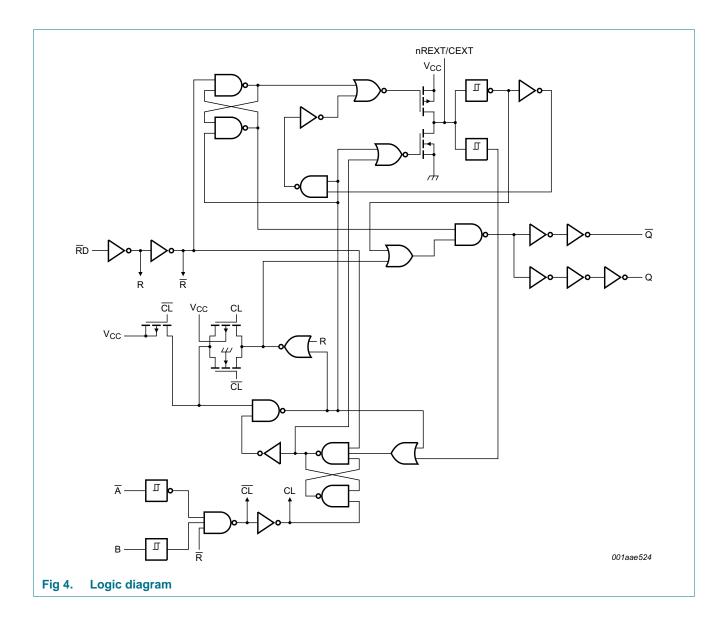
Dual retriggerable monostable multivibrator with reset



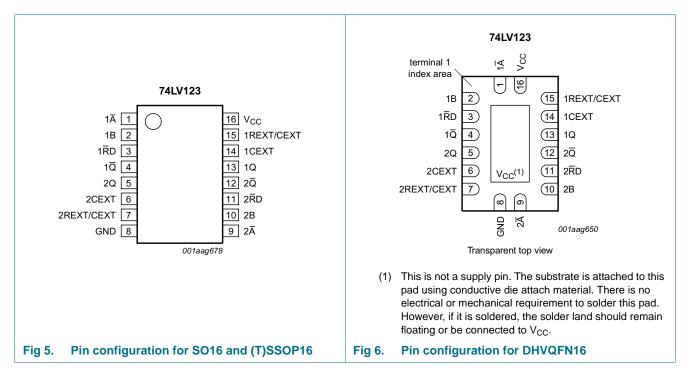
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Dual retriggerable monostable multivibrator with reset



5. Pinning information



5.1 Pinning

5.2 Pin description

Table 2. Pin description						
Symbol	Pin	Description				
1Ā	1	negative-edge triggered input 1				
1B	2	positive-edge triggered input 1				
1RD	3	direct reset LOW and positive-edge triggered input 1				
1 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)				
2Ā	9	negative-edge triggered input 2				
2B	10	positive-edge triggered input 2				
2RD	11	direct reset LOW and positive-edge triggered input 2				
2 <u>Q</u>	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				

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6. Functional description

Table	3.	Function	table ^[1]

			Output		
nRD	nĀ	nB	nQ	nQ	
L	Х	Х	L	Н	
Х	Н	Х	L ^[2]	H[2]	
Х	Х	L	L ^[2]	H[2]	
Н	L	1	Л	U	
Н	\downarrow	Н	Л	J	
1	L	Н	Л	U	

[1] H = HIGH voltage level;

L = LOW voltage level;

X = don't care;

 \uparrow = LOW-to-HIGH transition;

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

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

[2] For SO16 package: P_{tot} derates linearly with 8 mW/K above 70 °C.

[3] For SSOP16 and TSSOP16 packages: P_{tot} derates linearly with 5.5 mW/K above 60 $^\circ\text{C}.$

[4] 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	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	in free air	-40	+25	+125	°C
$\Delta t / \Delta V$	input transition rise and fall rate	V _{CC} = 1.0 V to 2.0 V [2]	-	-	500	ns/V
		V_{CC} = 2.0 V to 2.7 V	-	-	200	ns/V
		V _{CC} = 2.7 V to 3.6 V	-	-	100	ns/V
		$V_{CC} = 3.6 \text{ V to } 5.5 \text{ V}$	-	-	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 $n\overline{A}$ 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]	Мах	Unit
T _{amb} = –	40 °C to +85 °C					1
V _{IH}	HIGH-level input voltage	V _{CC} = 1.2 V	0.9	-	-	V
		V _{CC} = 2.0 V	1.4	-	-	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2.0	-	-	V
		V_{CC} = 4.5 V to 5.5 V	$0.7\times V_{CC}$	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.2 V	-	-	0.3	V
		V _{CC} = 2.0 V	-	-	0.6	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	0.8	V
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$	-	-	$0.3\times V_{CC}$	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		$I_{O} = -100 \ \mu A; \ V_{CC} = 1.2 \ V$	-	1.2	-	V
		$I_0 = -100 \ \mu A; \ V_{CC} = 2.0 \ V$	1.8	2.0	-	V
		$I_0 = -100 \ \mu A; \ V_{CC} = 2.7 \ V$	2.5	2.7	-	V
		$I_{O} = -100 \ \mu A; \ V_{CC} = 3.0 \ V$	2.8	3.0	-	V
		$I_{O} = -100 \ \mu A; \ V_{CC} = 4.5 \ V$	4.3	4.5	-	V
		$I_{O} = -6 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.40	2.82	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.60	4.20	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		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
		$I_{O} = 6 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	0.25	0.40	V
		I_{O} = 12 mA; V_{CC} = 4.5 V	-	0.35	0.55	V
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
∆l _{CC}	additional supply current	V_{I} = V_{CC} – 0.6 V; V_{CC} = 2.7 V to 3.6 V	-	-	500	μA
CI	input capacitance		-	3.5	-	pF
-		- Free State Sta			A	

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Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
T _{amb} = –	40 °C to +125 °C			1		
VIH	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
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$	$0.7\times V_{CC}$	-	-	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
		$V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$	-	-	$0.3\times V_{CC}$	V
V _{ОН}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		$I_{O} = -100 \ \mu A; \ V_{CC} = 1.2 \ V$	-	-	-	V
		$I_{O} = -100 \ \mu A; \ V_{CC} = 2.0 \ V$	1.8	-	-	V
		$I_{O} = -100 \ \mu A; \ V_{CC} = 2.7 \ V$	2.5	-	-	V
		$I_{O} = -100 \ \mu A; \ V_{CC} = 3.0 \ V$	2.8	-	-	V
		$I_{O} = -100 \ \mu A; \ V_{CC} = 4.5 \ V$	4.3	-	-	V
		$I_{O} = -6 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	V
		$I_0 = -12 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.5	-	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		$I_{O} = 100 \ \mu\text{A}; \ V_{CC} = 1.2 \ \text{V}$	-	-	-	V
		$I_{O} = 100 \ \mu\text{A}; \ V_{CC} = 2.0 \ \text{V}$	-	-	0.2	V
		$I_{O} = 100 \ \mu\text{A}; \ V_{CC} = 2.7 \ \text{V}$	-	-	0.2	V
		$I_{O} = 100 \ \mu\text{A}; \ V_{CC} = 3.0 \ \text{V}$	-	-	0.2	V
		$I_{O} = 100 \ \mu\text{A}; \ V_{CC} = 4.5 \ \text{V}$	-	-	0.2	V
		$I_{O} = 6 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.5	V
		I _O = 12 mA; V _{CC} = 4.5 V	-	-	0.65	V
l	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	μA
I _{CC}	supply current	$V_{I} = V_{CC}$ or GND; $I_{O} = 0$ A; $V_{CC} = 5.5$ V	-	-	160	μA
Δl _{CC}	additional supply current	$V_{I} = V_{CC} - 0.6 \text{ V}; V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	850	μA

Table 6. Static characteristics ...continued

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

[1] All typical values are measured at $T_{amb} = 25 \ ^{\circ}C$.

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; $t_r = t_f \le 2.5$ ns; for test circuit see <u>Figure 8</u>.

Symbol	Parameter	Parameter Conditions		0 °C to +8	5 °C	-40 °C to	o +125 ℃	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
Propaga	tion delay; see	Figure 7				1		
t _{pd}	propagation	$n\overline{R}D$, $n\overline{A}$ and nB to $n\overline{Q}$	[2]					
	delay	V _{CC} = 1.2 V	-	120	-	-	-	ns
		V _{CC} = 2.0 V	-	40	76	-	92	ns
		V _{CC} = 2.7 V	-	30	56	-	68	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	25	48	-	57	ns
		V_{CC} = 4.5 V to 5.5 V	-	18	40	-	46	ns
		nRD to nQ (reset)	[2]					
		V _{CC} = 1.2 V	-	100	-	-	-	ns
		V _{CC} = 2.0 V	-	30	57	-	68	ns
		V _{CC} = 2.7 V	-	23	43	-	51	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	-	20	38	-	45	ns
		V_{CC} = 4.5 V to 5.5 V	-	14	31	-	36	ns
Inputs n	A, nB and nRD;	see <mark>Figure 7</mark>				1		
tw	pulse width $n\overline{A} = LOW$							
		V _{CC} = 2.0 V	30	5	-	40	-	ns
		V _{CC} = 2.7 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 V to 5.5 V	15	2.5	-	20	-	ns
		nB = HIGH						
		V _{CC} = 2.0 V	30	13	-	40	-	ns
		V _{CC} = 2.7 V	25	8	-	30	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	20	7	-	25	-	ns
		V_{CC} = 4.5 V to 5.5 V	15	5	-	20	-	ns
		$n\overline{R}D = LOW$; see <u>Figure 13</u>						
		V _{CC} = 2.0 V	35	6	-	45	-	ns
		V _{CC} = 2.7 V	30	5	-	40	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	25	4	-	30	-	ns
		V_{CC} = 4.5 V to 5.5 V	20	3	-	25	-	ns
t _{rtrig}	retrigger time	nB to $n\overline{A}$; see Figure 12						
		V _{CC} = 2.0 V	-	70	-	-	-	ns
		V _{CC} = 2.7 V	-	55	-	-	-	ns
		V_{CC} = 3.0 V to 3.6 V	-	45	-	-	-	ns
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	-	40	-	-	-	ns

Dual retriggerable monostable multivibrator with reset

Symbol	Parameter	Conditions	-4	–40 °C to +85 °C			–40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	
Outputs	; n <mark>Q</mark> = LOW and	nQ = HIGH, see <u>Figure 7</u>						
t _W	pulse width	C_{EXT} = 100 nF; R_{EXT} = 10 k Ω						
		V _{CC = 2.0 V}	-	470	-	-	-	ns
		V _{CC} = 2.7 V	-	460	-	-	-	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	450	-	-	-	ns
		$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	430	-	-	-	ns
		$C_{EXT} = 0 \text{ pF}; \text{ R}_{EXT} = 5 \text{ k}\Omega$						
		V _{CC} = 2.0 V	-	100	-	-	-	ns
		V _{CC} = 2.7 V	-	90	-	-	-	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	80	-	-	-	ns
		$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	70	-	-	-	ns
External	components							
R _{EXT}	external resistance	see Figure 11	[3]					
		V _{CC} = 1.2 V	10	-	1000	-	-	kΩ
		$V_{CC} = 2.0 V$	5	-	1000	-	-	kΩ
		V _{CC} = 2.7 V	3	-	1000	-	-	kΩ
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	2	-	1000	-	-	kΩ
		$V_{CC} = 4.5 V \text{ to } 5.5 V$	2	-	1000	-	-	kΩ
C _{EXT}	external capacitance	see Figure 11	[<u>3]</u> [4]					
		V _{CC} = 1.2 V	-	-	-	-	-	pF
		$V_{CC} = 2.0 V$	-	-	-	-	-	pF
		V _{CC} = 2.7 V	-	-	-	-	-	pF
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	-	-	-	-	-	pF
		$V_{CC} = 4.5 V \text{ to } 5.5 V$	-	-	-	-	-	pF
Dynamic	power dissipat	tion	I	1	1	1	1	
C _{PD}	power dissipation capacitance	V_{CC} = 3.3 V; V_{I} = GND to V_{CC}	<u>[5]</u> _	60	-	-	-	pF

Table 7. Dynamic characteristics ... continued

GND = 0 V; $t_r = t_f \le 2.5$ ns; for test circuit see <u>Figure 8</u>.

[1] All typical values are measured at $T_{amb} = 25 \text{ °C}$ and nominal supply values ($V_{CC} = 3.3 \text{ V}$ and 5.0 V).

[2] t_{pd} is the same as t_{PLH} and t_{PHL} ; $C_{EXT} = 0$ pF; $R_{EXT} = 5$ kΩ.

[3] For other R_{EXT} and C_{EXT} combinations see Figure 11 and Section 12.1.1 "Basic timing".

 $[4] \quad C_{\text{EXT}} \text{ has no limits.}$

[5] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

 $\mathsf{P}_{\mathsf{D}} = \mathsf{C}_{\mathsf{P}\mathsf{D}} \times \mathsf{V}_{\mathsf{C}\mathsf{C}}^2 \times \mathsf{f}_i \times \mathsf{N} + \Sigma(\mathsf{C}_{\mathsf{L}} \times \mathsf{V}_{\mathsf{C}\mathsf{C}}^2 \times \mathsf{f}_o) \text{ where:}$

 f_i = input frequency in MHz;

 $f_o = output frequency in MHz;$

 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}{}^2 \times f_o)$ = sum of the outputs.

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11. Waveforms

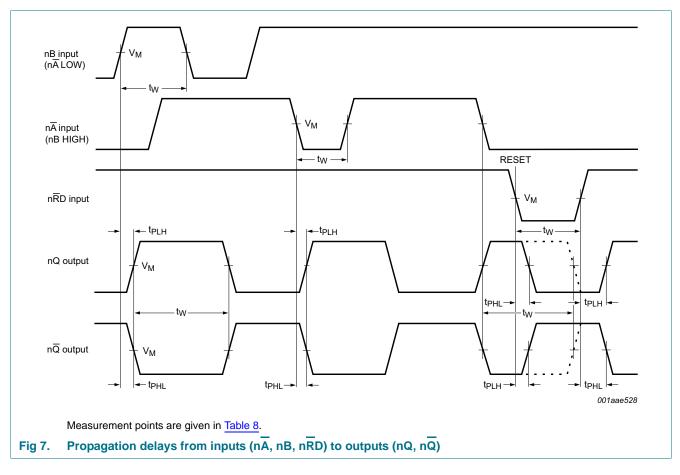
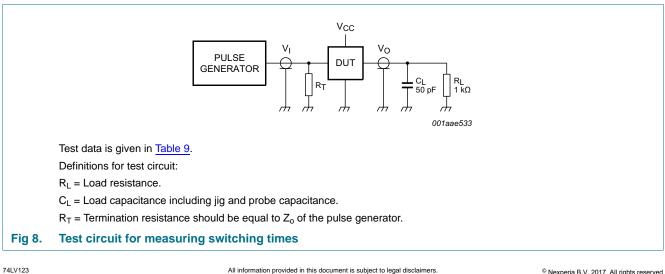


Table 8. **Measurement points**

V _{cc}	V _M
≥ 2.7 V	1.5 V
< 2.7 V	$0.5 \times V_{CC}$



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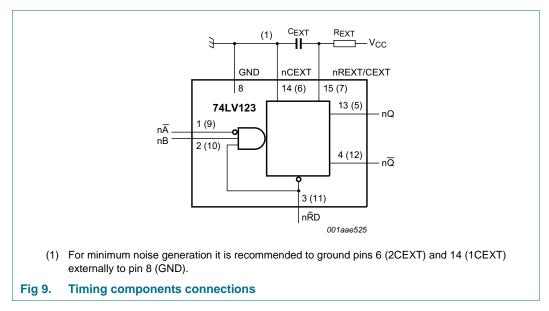
Table 9. Test data								
Supply voltage	Input		Load		Test			
V _{CC}	VI	t _r , t _f	CL	RL				
< 2.7 V	V _{CC}	≤ 2.5 ns	50 pF	1 kΩ	t _{PHL} , t _{PLH}			
2.7 V to 3.6 V	2.7 V	\leq 2.5 ns	50 pF	1 kΩ	t _{PHL} , t _{PLH}			
≥ 4.5 V	V _{CC}	\leq 2.5 ns	50 pF	1 kΩ	t _{PHL} , t _{PLH}			

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 $C_{\text{EXT}}.$



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 $k\Omega$

C_{EXT} = external capacitor in pF

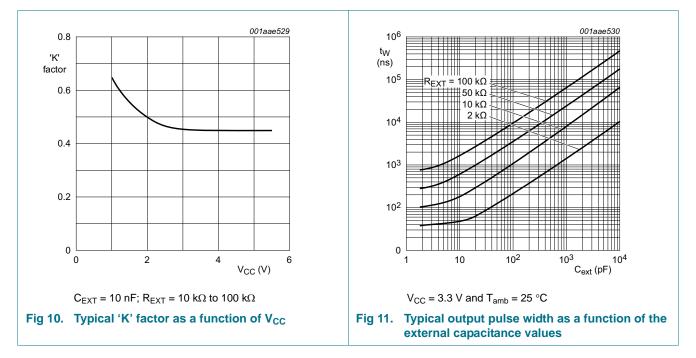
K = constant: this is 0.45 for V_{CC} = 5.0 V and 0.48 for V_{CC} = 2.0 V (see Figure 10)

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

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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 $C_{EXT} > 10 \text{ pF}$, the next formula for the set-up time of a retrigger pulse is valid:

at V_{CC} = 5.0 V: t_{rtrig} = 30 + 0.19 $R_{EXT} \times C_{EXT}^{0.9}$ + 13 × $R_{EXT1.05}$ (typ.)

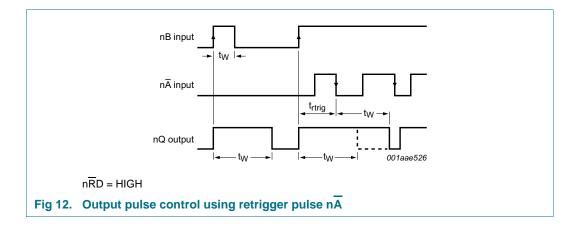
at $V_{CC} = 3.0$ V: $t_{rtrig} = 41 + 0.15 R_{EXT} \times C_{EXT}^{0.9} \times 1 \times R_{EXT}$ (typ.)

where:

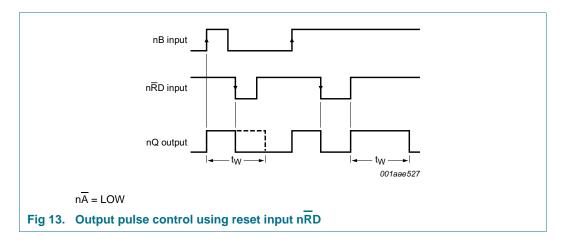
t_{rtrig} = retrigger time in ns

C_{EXT} = external capacitor in pF

 R_{EXT} = external resistor in k Ω



12.1.3 Reset timing



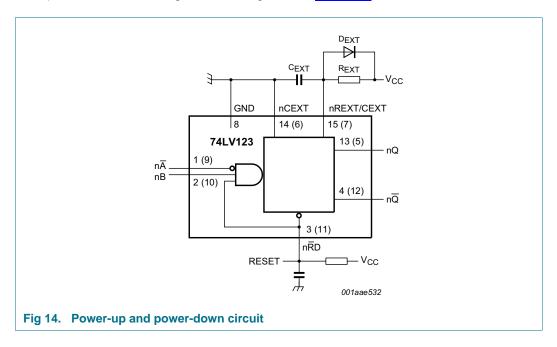
12.2 Power considerations

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 nRD 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.



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13. Package outline

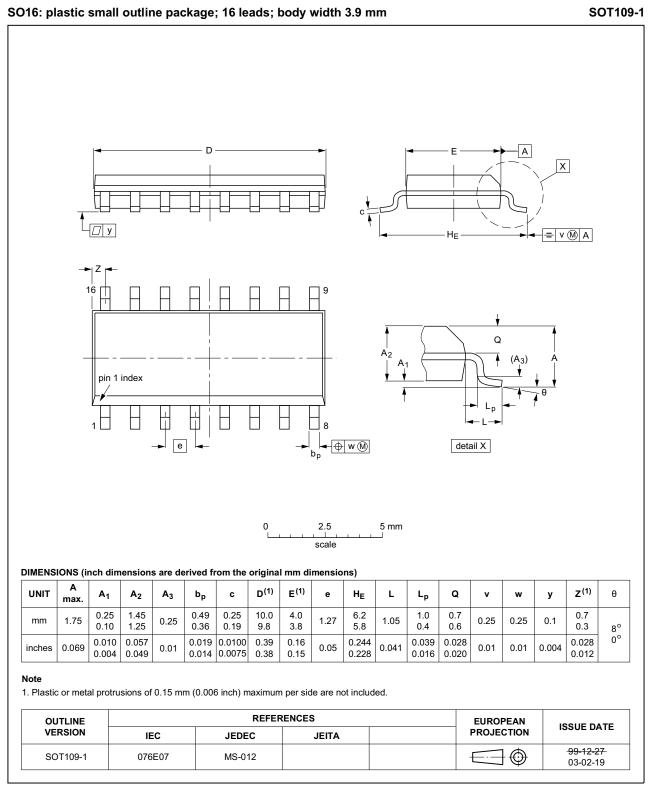


Fig 15. Package outline SOT109-1 (SO16)

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74LV123

All in

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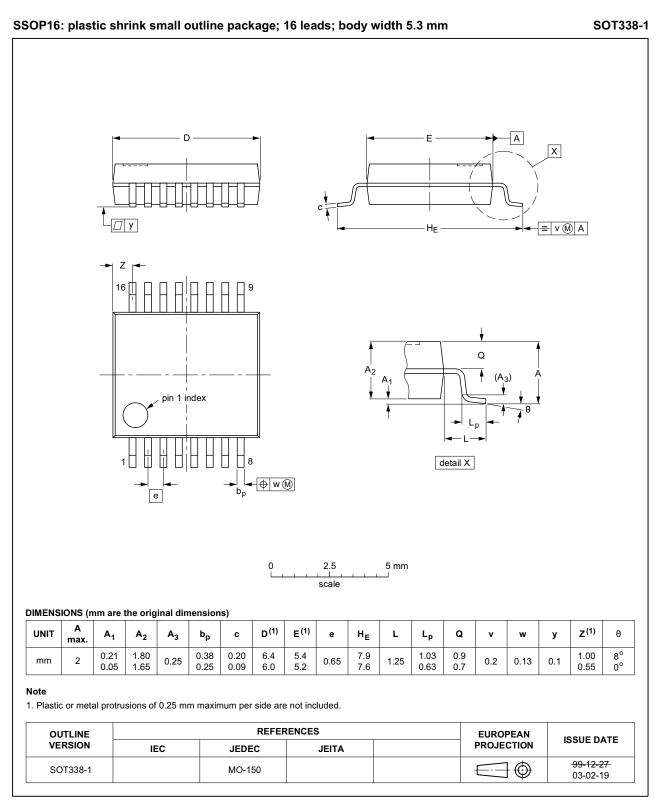


Fig 16. Package outline SOT338-1 (SSOP16)

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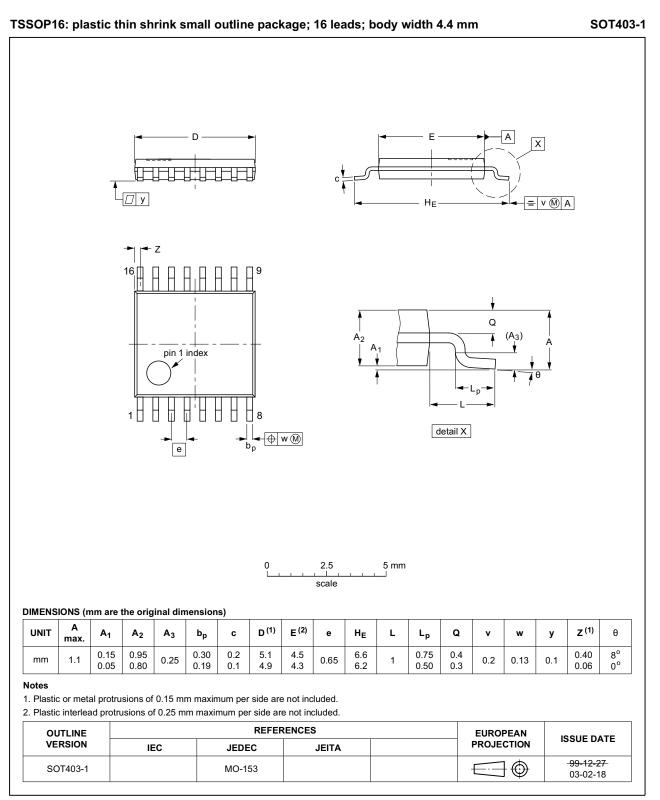
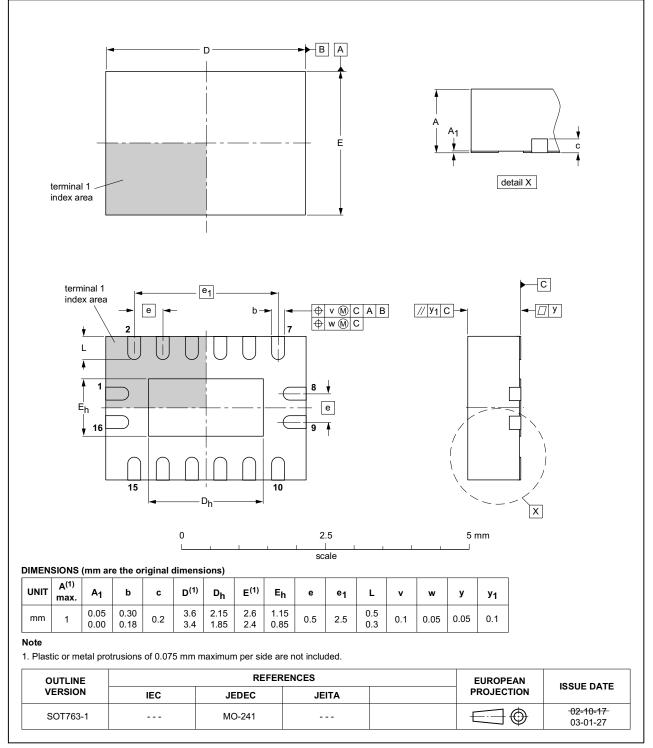


Fig 17. Package outline SOT403-1 (TSSOP16)

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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 18. Package outline SOT763-1 (DHVQFN16)

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14. Abbreviations

Table 10. Abbreviations				
Acronym	Description			
CMOS	Complementary Metal Oxide Semiconductor			
DUT	Device Under Test			

15. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LV123 v.8	20160304	Product data sheet	-	74LV123 v.7		
Modifications:	Type number	Type numbers 74LV123N (SOT38-4) removed.				
74LV123 v.7	20111212	Product data sheet	-	74LV123 v.6		
Modifications:	 Legal pages 	Legal pages updated.				
74LV123 v.6	20110826	Product data sheet	-	74LV123 v.5		
74LV123 v.5	20071108	Product data sheet	-	74LV123 v.4		
74LV123 v.4	20070919	Product specification	-	74LV123 v.3		
74LV123 v.3	20030313	Product specification	-	74LV123 v.2		
74LV123 v.2	19980420	Product specification	-	74LV123 v.1		
74LV123 v.1	19970204	Product specification	-	-		

16. Legal information

16.1 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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