74AHC123A; 74AHCT123A

Dual retriggerable monostable multivibrator with reset

Rev. 7 — 28 February 2024

Product data sheet

1. General description

The 74AHC123A; 74AHCT123A is a dual retriggerable monostable multivibrator with reset. The basic output pulse width is programmed by selection of external components (R_{EXT} and C_{EXT}). Once triggered this basic pulse width may be extended by retriggering either of the edge triggered inputs ($n\overline{A}$ or (nB). By repeating this process, the output pulse period (nQ = HIGH, $n\overline{Q} = LOW$) can be made as long as desired. Alternatively, an output delay can be terminated at any time by a LOW-going edge on input $n\overline{R}D$. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

2. Features and benefits

- Wide supply voltage range from 2.0 V to 5.5 V
- DC triggered from active HIGH or active LOW inputs
- Retriggerable for very long pulses up to 100 % duty factor
- · Direct reset terminates output pulse
- Overvoltage tolerant inputs to 5.5 V
- All inputs have a Schmitt-trigger action
- · High noise immunity
- Input levels:
 - For 74AHC123A: CMOS level
 - For 74AHCT123A: TTL level
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

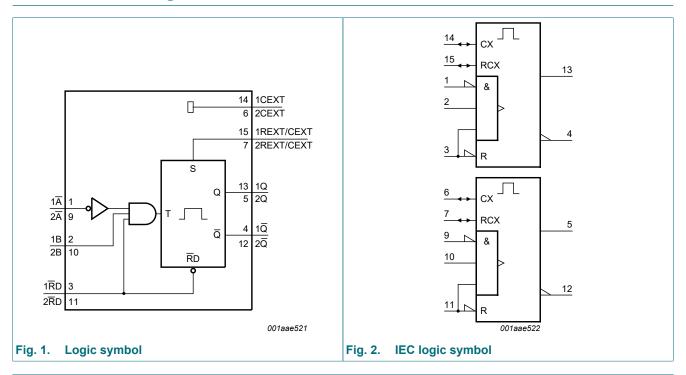
3. Ordering information

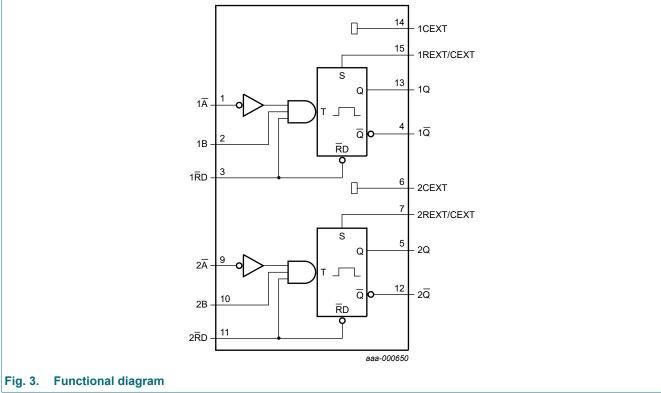
Table 1. Ordering information

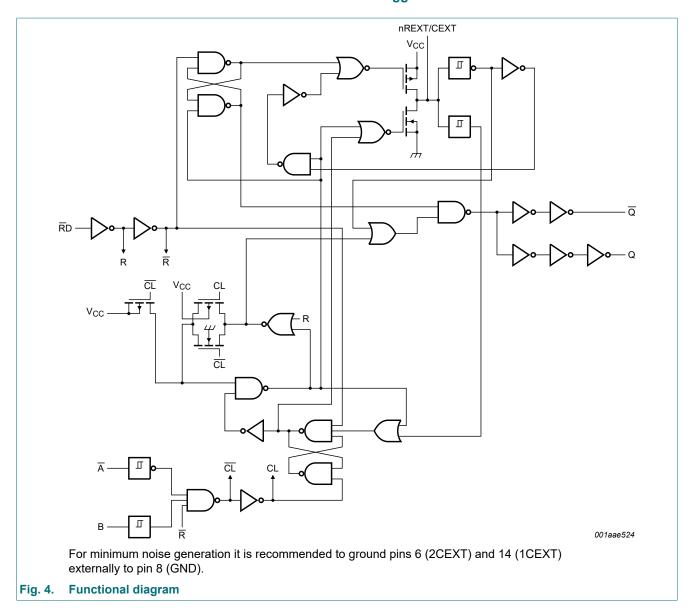
Type number	Package			
	Temperature range	Name	Description	Version
74AHC123AD 74AHCT123AD	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	SOT109-1
74AHC123APW 74AHCT123APW	-40 °C to +125 °C	TSSOP16	plastic thin shrink small outline package; 16 leads; body width 4.4 mm	SOT403-1
74AHC123ABQ 74AHCT123ABQ	-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	<u>SOT763-1</u>



4. Functional diagram

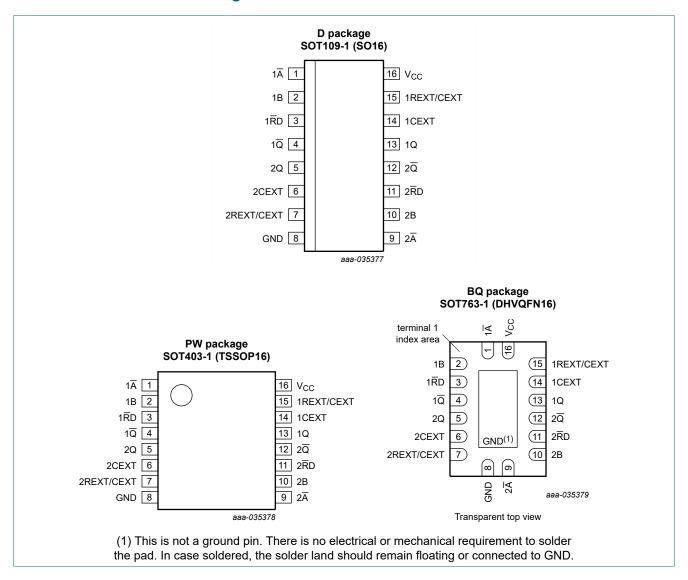






5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
1 A	1	negative-edge triggered input 1
1B	2	positive-edge triggered input 1
1RD	3	direct reset LOW and positive-edge triggered input 1
1Q	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
2Q	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

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

↑ = LOW-to-HIGH transition;

↓ = HIGH-to-LOW transition;

 Π = one HIGH level output pulse;

☐ = one LOW level output pulse.

	Input	Output				
nRD	nĀ	nB	nB nQ			
L	X	X	L	Н		
X	Н	X	L [1]	H [1]		
X	X	L	L [1]	H [1]		
Н	L	1	Л	L		
Н	↓	Н	Л	L		
1	L	Н	Л	T		

^[1] 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	+7.0	V
VI	input voltage		-0.5	+7.0	V
I _{IK}	input clamping current	$V_1 < -0.5 \text{ V}$ [1]	-20	-	mA
I _{OK}	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
Io	output current	$V_{O} = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-	±25	mA
I _{CC}	supply current		-	75	mA
I _{GND}	ground current		-75	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C [2]	-	500	mW

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

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	74AHC123A		BA	74	AHCT12	3 A	Unit
			Min	Тур	Max	Min	Тур	Max	
V_{CC}	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	V
Vo	output voltage		0	-	V _{CC}	0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	-	-	100	-	-	-	ns/V
	fall rate	V _{CC} = 5.0 V ± 0.5 V	-	-	20	-	-	20	ns/V

^[2] For SOT109-1 (SO16) package: P_{tot} derates linearly with 12.4 mW/K above 110 °C. For SOT403-1 (TSSOP16) package: P_{tot} derates linearly with 8.5 mW/K above 91 °C. For SOT763-1 (DHVQFN16) package: P_{tot} derates linearly with 11.2 mW/K above 106 °C.

9. Static characteristics

Table 6. Static characteristics

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		25 °C			°C to 5 °C		°C to 5 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74AHC1	23A						·			
V _{IH}	HIGH-level	V _{CC} = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V _{CC} = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V _{CC} = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V _{IL}	LOW-level	V _{CC} = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V _{CC} = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V _{CC} = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V _{OH}	HIGH-level	V _I = V _{IH} or V _{IL}								
	output voltage	I _O = -50 μA; V _{CC} = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I _O = -50 μA; V _{CC} = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I _O = -50 μA; V _{CC} = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I _O = -8.0 mA; V _{CC} = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V _{OL}	LOW-level	V _I = V _{IH} or V _{IL}								
~_	output voltage	I _O = 50 μA; V _{CC} = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 μA; V _{CC} = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 50 μA; V _{CC} = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I _O = 8.0 mA; V _{CC} = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V								
		nREXT/CEXT [1]	-	-	±0.25	-	±2.5	-	±10.0	μΑ
		pins nĀ, nB, nRD	-	-	±0.1	-	±1.0	-	±2.0	μΑ
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	4.0	-	40	-	80	μΑ
		active state (per circuit); [1] $V_I = V_{CC}$ or GND								
		V _{CC} = 3.0 V	-	160	250	-	280	-	280	μΑ
		V _{CC} = 4.5 V	-	380	500	-	650	-	650	μA
		V _{CC} = 5.5 V	-	560	750	-	975	-	975	μA
C _I	input capacitance		-	5.0	10	-	10	-	10	pF
C _O	output capacitance		-	4.0	-	-	-	-	-	pF

Symbol	Parameter	Conditions		25 °C			°C to 5 °C	-40 °C to +125 °C		Unit
				Тур	Max	Min	Max	Min	Max	
74AHCT	123A			'						
V _{IH}	HIGH-level input voltage	V _{CC} = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = -50 μA	4.4	4.5	-	4.4	-	4.4	-	V
		I _O = -8.0 mA	3.94	_	-	3.8	-	3.70	-	V
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 4.5 \text{ V}$								
	output voltage	I _O = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I _O = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
l _l	input leakage current	nREXT/CEXT; V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	[1] -	-	±0.25	-	±2.5	-	±10.0	μA
		pins n \overline{A} , nB, n $\overline{R}D$; V _I = V _{CC} or GND; V _{CC} = 5.5 V	-	-	±0.1	-	±1.0	-	±2.0	μA
I _{CC}	supply current	$V_1 = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	4.0	-	40	-	80	μA
		active state (per circuit); V _I = V _{CC} or GND	[1]							
		V _{CC} = 4.5 V	-	380	500	-	650	-	650	μΑ
		V _{CC} = 5.5 V	-	560	750	-	975	-	975	μΑ
Cı	input capacitance		-	3	10	-	10	-	10	pF
Co	output capacitance		-	4.0	-	-	-	-	-	pF

^[1] Voltage on nREXT/CEXT = $0.5 \times V_{CC}$ and pin nREXT/CEXT in OFF-state during test.

10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V; For test circuit see Fig. 10.

Symbol	Parameter	Conditions		25 °C			°C to 5 °C		°C to 5 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
74AHC1	23A									
t _{pd}	propagation	$n\overline{A}$ and nB to nQ and $n\overline{Q}$; see Fig. 5 [2]								
	delay	V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	-	7.4	20.6	1.0	24.0	1.0	26.0	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 50 pF	-	10.5	24.1	1.0	27.5	1.0	30.0	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	-	5.1	12.0	1.0	14.0	1.0	15.5	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 50 pF	-	7.3	14.0	1.0	16.0	1.0	17.5	ns
		\overline{nRD} to \overline{nQ} and \overline{nQ} ; see $\overline{\underline{Fig. 5}}$ [2]								
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	-	8.2	22.4	1.0	26.0	1.0	28.0	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 50 pF	-	11.7	25.9	1.0	29.5	1.0	32.0	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	-	5.6	12.9	1.0	15.0	1.0	16.5	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 50 pF	-	8.1	14.9	1.0	17.0	1.0	19.0	ns
		\overline{nRD} to \overline{nQ} and \overline{nQ} (reset); see Fig. 5 [2]								
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	-	6.4	15.8	1.0	18.5	1.0	20.0	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 50 pF	-	9.2	19.3	1.0	22.0	1.0	24.5	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	-	4.4	9.4	1.0	11.0	1.0	12.0	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 50 pF	-	6.3	11.4	1.0	13.0	1.0	14.5	ns
t _W	pulse width	inputs; nA = LOW; see Fig. 5								
		V _{CC} = 3.0 V to 3.6 V	5.0	-	-	5.0	-	5.0	-	ns
		V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		inputs; nB = HIGH; see Fig. 5								
		V _{CC} = 3.0 V to 3.6 V	5.0	-	-	5.0	-	5.0	-	ns
		V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		inputs; nRD = LOW; see Fig. 5								
		V _{CC} = 3.0 V to 3.6 V	5.0	-	-	5.0	-	5.0	-	ns
		V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		outputs; $n\overline{Q}$ = LOW and [3] nQ = HIGH; C_L = 50 pF; see Fig. 5, Fig. 6, Fig. 7 and Fig. 8								
		$C_{EXT} = 28 \text{ pF}; R_{EXT} = 2 \text{ k}\Omega$								
		V _{CC} = 3.0 V to 3.6 V	-	115	240	-	300	-	300	ns
		V _{CC} = 4.5 V to 5.5 V	-	100	200	-	240	-	240	ns
		$C_{EXT} = 0.01 \mu\text{F}; R_{EXT} = 10 \text{k}\Omega$								
		V _{CC} = 3.0 V to 3.6 V	90	100	110	90	110	85	115	μs
		V _{CC} = 4.5 V to 5.5 V	90	100	110	90	110	85	115	μs
		$C_{EXT} = 0.1 \mu F; R_{EXT} = 10 k\Omega;$								
		V _{CC} = 3.0 V to 3.6 V	0.9	1	1.1	0.9	1.1	0.85	1.15	ms
		V _{CC} = 4.5 V to 5.5 V	0.9	1	1.1	0.9	1.1	0.85	1.15	ms

Symbol	Parameter	Conditions		25 °C			°C to		°C to 5 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
t _{rtrig}	retrigger time	$n\overline{A}$ to nB; C_{EXT} = 100 pF; R_{EXT} = 1 k Ω ; C_L = 50 pF; see Fig. 6 and Fig. 8								
		V _{CC} = 3.0 V to 3.6 V	-	60	-	-	-	-	-	ns
		V _{CC} = 4.5 V to 5.5 V	-	39	-	-	-	-	-	ns
		$n\overline{A}$ to nB; C _{EXT} = 0.01 μF; R _{EXT} = 1 kΩ; C _L = 50 pF; see <u>Fig. 6</u> and <u>Fig. 8</u>								
		V _{CC} = 3.0 V to 3.6 V	-	1.5	-	-	-	-	-	μs
		V _{CC} = 4.5 V to 5.5 V	-	1.2	-	-	-	-	-	μs
C _{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; [4] V_I = GND to V_{CC}	-	57	-	-	-	-	-	pF
74AHCT	123A									
t _{pd}	propagation	$n\overline{A}$ and nB to nQ and $n\overline{Q}$; see Fig. 5 [2]								
	delay	V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	-	5.0	12.0	1.0	14.0	1.0	15.5	ns
		V_{CC} = 4.5 V to 5.5 V; C_L = 50 pF	-	7.1	14.0	1.0	16.0	1.0	17.5	ns
		nRD to nQ and nQ; see Fig. 5 [2]								
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	-	5.2	12.9	1.0	15.0	1.0	16.5	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 50 pF	-	7.5	14.9	1.0	17.0	1.0	18.5	ns
		nRD to nQ and nQ (reset); see Fig. 5 [2]								
		V _{CC} = 4.5 V to 5.5 V; C _L = 15 pF	-	4.7	9.4	1.0	11.0	1.0	12.0	ns
		V _{CC} = 4.5 V to 5.5 V; C _L = 50 pF	-	6.7	11.4	1.0	13.0	1.0	14.5	ns
t _W	pulse width	inputs; $n\overline{A}$ = LOW; C_L = 50 pF; see Fig. 5								
		V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		inputs; nB = HIGH; C _L = 50 pF; see <u>Fig. 5</u>								
		V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		inputs; nRD = LOW; C _L = 50 pF; see Fig. 5								
		V _{CC} = 4.5 V to 5.5 V	5.0	-	-	5.0	-	5.0	-	ns
		outputs; $n\overline{Q}$ = LOW and [3] nQ = HIGH; C_L = 50 pF; C_{EXT} = 28 pF; R_{EXT} = 2 k Ω ; see Fig. 5, Fig. 6, Fig. 7 and Fig. 8								
		V _{CC} = 4.5 V to 5.5 V	-	100	200	-	240	-	240	ns
		$C_{EXT} = 0.01 \mu F; R_{EXT} = 10 k\Omega$								
		V _{CC} = 4.5 V to 5.5 V	90	100	110	90	110	85	115	μs
		C _{EXT} = 0.1 μF; R _{EXT} = 10 kΩ								
		V _{CC} = 4.5 V to 5.5 V	0.9	1	1.1	0.9	1.1	0.85	1.15	ms

Symbol	Parameter	Conditions		25 °C			-40 °C to +85 °C		-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	Min	Max	
t _{rtrig}	retrigger time	$n\overline{A}$ to nB; C _{EXT} = 100 pF; R _{EXT} = 1 kΩ; C _L = 50 pF; see Fig. 6 and Fig. 8								
		V _{CC} = 4.5 V to 5.5 V	-	60	-	-	-	-	-	ns
		nĀ to nB; C_{EXT} = 0.01 μ F; R_{EXT} = 1 k Ω ; C_L = 50 pF; see Fig. 6 and Fig. 8								
		V _{CC} = 4.5 V to 5.5 V	-	1.5	-	-	-	-	-	μs
C _{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; [4] V_I = GND to V_{CC}	-	58	-	-	-	-	-	pF
External	components									
R _{EXT}	external	V _{CC} = 2.0 V	5	-	-	-	-	-	-	kΩ
	resistance	V _{CC} > 3.0 V	1	-	-	-	-	-	-	kΩ
C _{EXT}	external	V _{CC} = 2.0 V [5]	-	-	-	-	-	-	-	pF
	capacitance	V _{CC} > 3.0 V [5]	-	-	-	-	-	-	-	pF

- Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 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 C_{EXT} ≥ 10 nF the typical value of the pulse width t_W (μs) = C_{EXT} (nF) × R_{EXT} (kΩ).
 [4] C_{PD} is used to determine the dynamic power dissipation P_D (μW).
 P_D = C_{PD} × V_{CC}² × f_i + Σ(C_L × V_{CC}² × f_o) where:

$$P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma (C_L \times V_{CC}^2 \times f_o)$$
 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.

[5] C_{EXT} has no limits.

10.1. Waveforms and test circuit

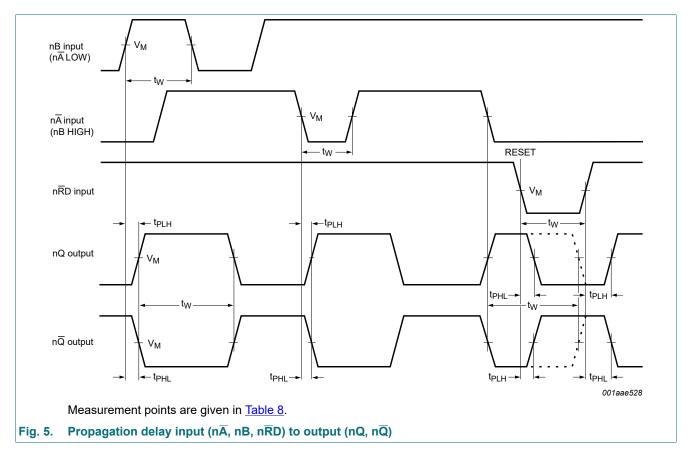
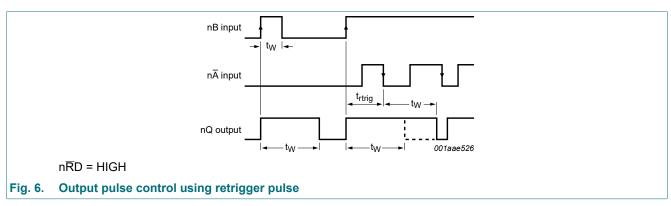
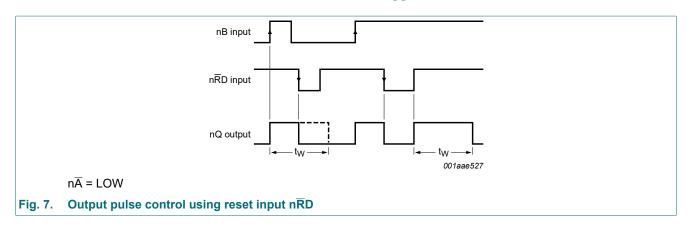
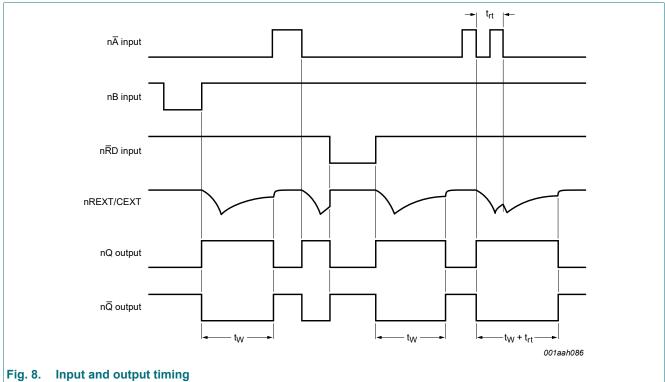


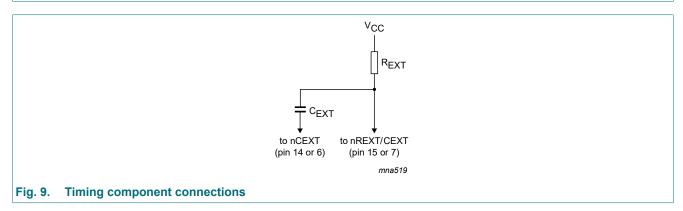
Table 8. Measurement points

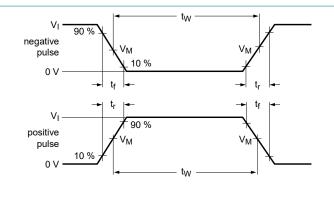
Туре	Input	Output
	V _M	V _M
74AHC123A	0.5 × V _{CC}	0.5 × V _{CC}
74AHCT123A	1.5 V	0.5 × V _{CC}

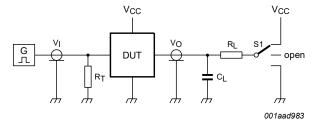












Test data is given in Table 9.

Definitions test circuit:

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

 C_L = Load capacitance including jig and probe capacitance

R_I = Load resistance

S1 = Test selection switch

Fig. 10. Test circuit for measuring switching times

Table 9. Test data

Туре	Input		Load		S1 position			
	V _I	t _r , t _f	C _L R _L t _P		t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t_{PZL}, t_{PLZ}	
74AHC123A	V _{CC}	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	
74AHCT123A	3.0 V	3.0 ns	15 pF, 50 pF	1 kΩ	open	GND	V _{CC}	

11. Package outline

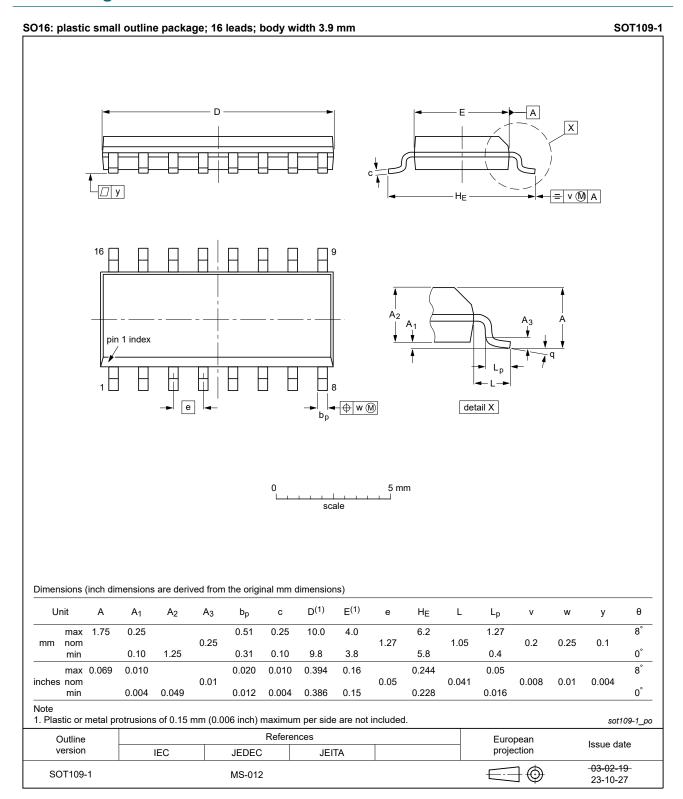


Fig. 11. Package outline SOT109-1 (SO16)

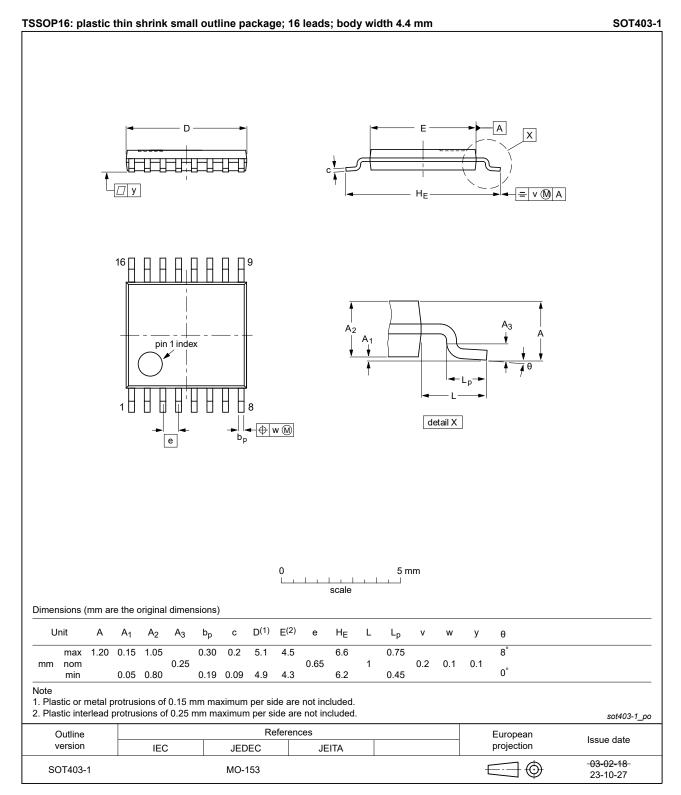


Fig. 12. Package outline SOT403-1 (TSSOP16)

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

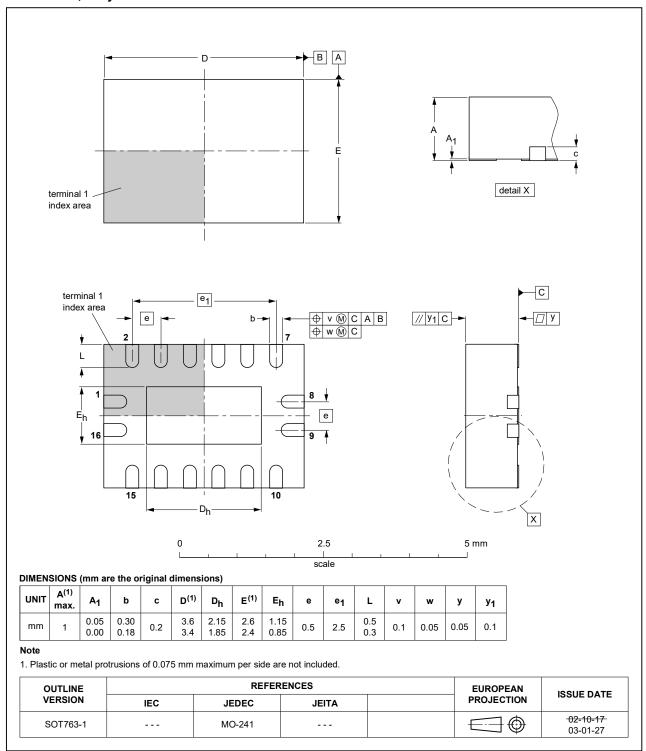


Fig. 13. Package outline SOT763-1 (DHVQFN16)

12. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged-Device Model
CMOS	Complementary 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		
74AHC_AHCT123A v.7	20240228	Product data sheet	-	74AHC_AHCT123A v.6		
Modifications:		 Fig. 11, Fig. 12: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153. 				
74AHC_AHCT123A v.6	20230904	Product data sheet	-	74AHC_AHCT123A v.5		
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74AHC_AHCT123A v.5	20200617	Product data sheet	-	74AHC_AHCT123A v.4		
Modifications:	guidelines c Legal texts Section 1 ar	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Section 1 and Section 2 updated. Table 4: Derating values for Ptot total power dissipation updated. 				
74AHC_AHCT123A v.4	20111108	Product data sheet	-	74AHC_AHCT123A v.3		
Modifications:	Legal pages updated.					
74AHC_AHCT123A v.3	20110908	Product data sheet	-	74AHC_AHCT123A v.2		
74AHC_AHCT123A v.2	20080118	Product data sheet	-	74AHC_AHCT123A v.1		
74AHC_AHCT123A v.1	20000315	Product specification	-	-		

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.

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74AHC_AHCT123A

Product data sheet

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