

### 1. General description

The 74HC423-Q100 is a dual retriggerable monostable multivibrator with output pulse width control by two methods. The basic pulse time is programmed by selection of an external resistor ( $R_{EXT}$ ) and capacitor ( $C_{EXT}$ ). Once triggered, the basic output pulse width may be extended by retriggering (nĀ) or (nB). By repeating this process, the output pulse period (nQ = HIGH, nQ = LOW) can be made as long as desired. When nRD is LOW, it forces the nQ output LOW, the nQ output HIGH and also inhibits the triggering. Schmitt-trigger action in the nĀ and nB inputs, makes the circuit highly tolerant to slower input rise and fall times. The '423' is identical to the '123' but cannot be triggered via the reset input. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

### 2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
   Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- DC triggered from active HIGH or active LOW inputs
- Retriggerable for very long pulses up to 100 % duty factor
- Direct reset terminates output pulse
- · Schmitt-trigger action on all inputs except for the reset input
- Wide supply voltage range from 2.0 V to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standard no. 7A
- CMOS input level
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- DHVQFN package with Side-Wettable Flanks enabling Automatic Optical Inspection (AOI) of solder joints

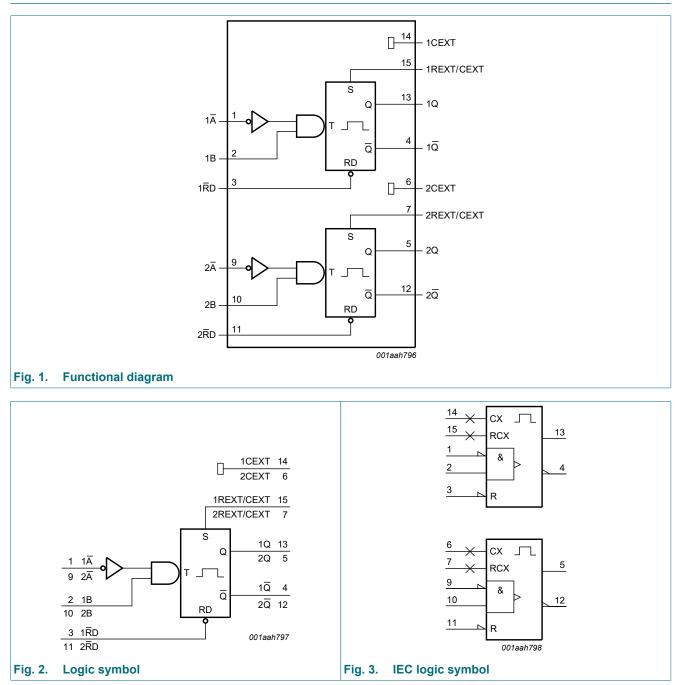
### 3. Ordering information

#### Table 1. Ordering information

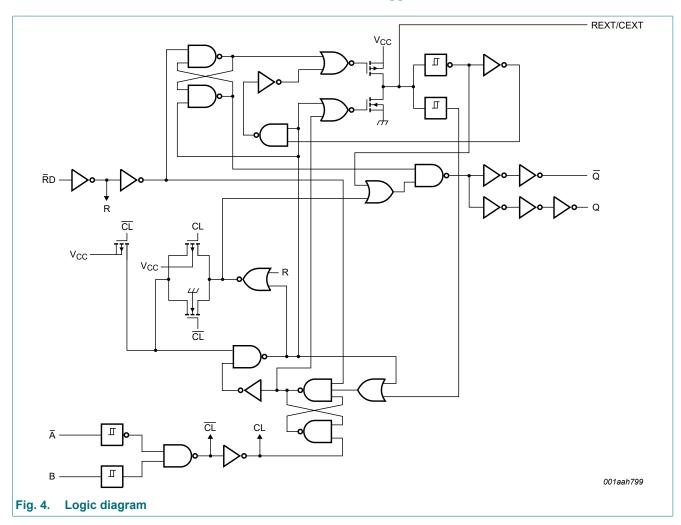
Type number	Package						
	Temperature range	Name	Description	Version			
74HC423D-Q100	-40 °C to +125 °C	SO16	plastic small outline package; 16 leads; body width 3.9 mm	<u>SOT109-1</u>			

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# 4. Functional diagram

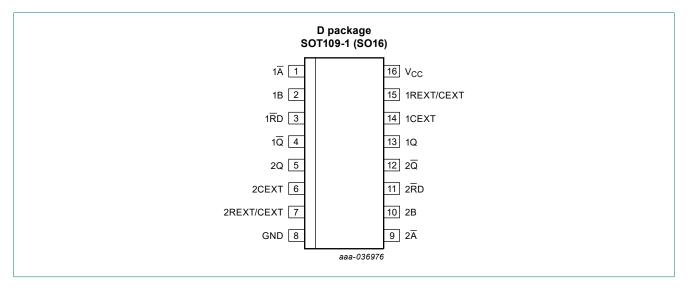


### Dual retriggerable monostable multivibrator with reset



## 5. Pinning information





### 5.2. Pin description

Table 2. Pin description						
Symbol	Pin	Description				
1Ā, 2Ā	1, 9	trigger input (negative edge triggered)				
1B, 2B	2, 10	trigger input (positive edge triggered)				
1RD, 2RD	3, 11	direct reset (active LOW)				
1 <u>Q</u> , 2 <u>Q</u>	4, 12	output (active LOW)				
GND	8	ground (0 V)				
1Q, 2Q	13, 5	output (active HIGH)				
1CEXT, 2CEXT	14, 6	external capacitor connection				
1REXT/CEXT, 2REXT/CEXT	15, 7	external resistor/capacitor connection				
V <sub>CC</sub>	16	supply voltage				

### 6. Functional description

### Table 3. Function table

*H* = HIGH voltage level; *L* = LOW voltage level; *X* = don't care;  $\uparrow$  = LOW-to-HIGH transition;  $\downarrow$  = HIGH-to-LOW transition;  $\prod$  = one HIGH level output pulse;  $\prod$  = one LOW level output pulse.

			Output			
nRD	nĀ	nB	nQ	nQ		
L	Х	Х	L	Н		
Х	Н	Х	L [1]	H [1]		
Х	Х	L	L [1]	H [1]		
Н	L	1	Л	U		
Н	Ļ	Н	Л	U		

[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 <sub>CC</sub>	supply voltage			-0.5	+7	V
I <sub>IK</sub>	input clamping current	$V_{\rm I}$ < -0.5 V or $V_{\rm I}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ < -0.5 V or $V_{\rm O}$ > $V_{\rm CC}$ + 0.5 V	[1]	-	±20	mA
lo	output current	-0.5 V < V <sub>O</sub> < V <sub>CC</sub> + 0.5 V; except for pins nREXT/CEXT		-	±25	mA
I <sub>CC</sub>	supply current			-	50	mA
I <sub>GND</sub>	ground current			-50	-	mA
T <sub>stg</sub>	storage temperature			-65	+150	°C
P <sub>tot</sub>	total power dissipation	SO16 and DHVQFN16 packages	[2]	-	500	mW

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

[2] For SOT109-1 (SO16) package: P<sub>tot</sub> derates linearly with 12.4 mW/K above 110 °C.

74HC423\_Q100

### 8. Recommended operating conditions

### Table 5. Recommended operating conditions

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

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	V
VI	input voltage		0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	ns/V

## 9. Static characteristics

### **Table 6. Static characteristics**

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

Symbol	Parameter	Conditions		25 °C		-40 °C te	o +85 °C	-40 °C to	• +125 ℃	Unit
			Min	Тур	Мах	Min	Max	Min	Мах	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}$								
	output voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0 V$	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	8.0	-	80	-	160	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

# **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
				Тур	Max	Min	Мах	Min	Мах	1
t <sub>pd</sub>	propagation delay	$n\overline{A}$ or $nB$ to $nQ$ or $n\overline{Q}$ ; $R_{EXT} = 5 k\Omega$ ; [1] $C_{EXT} = 0 pF$ ; see Fig. 5								
		V <sub>CC</sub> = 2.0 V		80	255	-	320	-	385	ns
		V <sub>CC</sub> = 4.5 V	-	29	51	-	64	-	77	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	25	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	23	43	-	54	-	65	ns
		$n\overline{R}D$ to $nQ$ or $n\overline{Q}$ ; see Fig. 5 [1]								
		V <sub>CC</sub> = 2.0 V	-	66	215	-	270	-	325	ns
		V <sub>CC</sub> = 4.5 V	-	24	43	-	54	-	65	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	20	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	19	37	-	46	-	55	ns
t <sub>t</sub>	transition time	see <u>Fig. 5</u> [2]								
		V <sub>CC</sub> = 2.0 V	-	19	75	-	95	-	110	ns
		$V_{CC} = 4.5 V$	-	7	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V		6	13	-	16	-	19	ns
t <sub>W</sub> pı	pulse width	nĀ input LOW; see <u>Fig. 5</u> and <u>Fig. 6</u>								
		V <sub>CC</sub> = 2.0 V	100	11	-	125	-	150	-	ns
		$V_{CC} = 4.5 V$	20	4	-	25	-	30	-	ns
		V <sub>CC</sub> = 6.0 V	17	3	-	21	-	26	-	ns
		nB input HIGH; see <u>Fig. 5</u> and <u>Fig. 6</u>								
		V <sub>CC</sub> = 2.0 V	100	17	-	125	-	150	-	ns
		V <sub>CC</sub> = 4.5 V	20	6	-	25	-	30	-	ns
		V <sub>CC</sub> = 6.0 V	17	5	-	21	-	26	-	ns
		nRD input LOW; see <u>Fig. 5</u> and <u>Fig. 6</u>								
		V <sub>CC</sub> = 2.0 V	100	14	-	125	-	150	-	ns
		V <sub>CC</sub> = 4.5 V	20	5	-	25	-	30	-	ns
		V <sub>CC</sub> = 6.0 V	17	4	-	21	-	26	-	ns
		nQ HIGH or n $\overline{Q}$ LOW; V <sub>CC</sub> = 5.0 V; R <sub>EXT</sub> = 10 k $\Omega$ ; C <sub>EXT</sub> = 100 nF; see Fig. 5 and Fig. 6	-	450	-	-	-	-	-	μs
		$\begin{array}{l} nQ \ HIGH \ or \ n\overline{Q} \ LOW; \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	-	75	-	-	-	-	-	ns
t <sub>rtrig</sub>	retrigger time	$n\overline{A}$ or nB input; V <sub>CC</sub> = 5.0 V; [4] R <sub>EXT</sub> = 5 k $\Omega$ ; C <sub>EXT</sub> = 0 pF; see Fig. 8	-	110	-	-	-	-	-	ns
R <sub>EXT</sub>	external	V <sub>CC</sub> = 2.0 V; see <u>Fig. 6</u>	10	-	1000	-	-	-	-	kΩ
	timing resistor	V <sub>CC</sub> = 5.0 V	2	-	1000	-	-	-	-	kΩ

#### Dual retriggerable monostable multivibrator with reset

Symbol	mbol Parameter Conditions		25 °C		-40 °C to +85 °C		-	°C to 5 °C	Unit		
				Min	Тур	Мах	Min	Мах	Min	Max	
C <sub>EXT</sub>	external timing capacitor	V <sub>CC</sub> = 5.0 V; see <u>Fig. 6</u>	[5]				no lim	its			pF
C <sub>PD</sub>	power dissipation capacitance	per package; $V_I = GND$ to $V_{CC}$	[6]	-	54	-	-	-	-	-	pF

t<sub>pd</sub> is the same as t<sub>PHL</sub> and t<sub>PLH</sub>. [1]

 $\dot{t_t}$  is the same as  $t_{THL}$  and  $t_{TLH}.$ [2]

For other R<sub>EXT</sub> and C<sub>EXT</sub> combinations see Fig. 6. If C<sub>EXT</sub> > 10 pF, the following formula is valid: [3]

 $t_W = K \times R_{EXT} \times C_{EXT}$  (typ.), where:

t<sub>W</sub> = output pulse width in ns;

 $R_{EXT}$  = external resistor in k $\Omega$ ;

C<sub>EXT</sub> = external capacitor in pF;

K = 0.55 for V<sub>CC</sub> = 2.0 V , K = 0.45 for V<sub>CC</sub> = 5.0 V; see Fig. 7.

Inherent test jig and pin capacitance at pins 15 and 7 (nREXT/CEXT) is 7 pF.

The time to retrigger the monostable multivibrator depends on the values of R<sub>EXT</sub> and C<sub>EXT</sub>. The output pulse width will only be [4] extended when the time between the active-going edges of the trigger input pulses meets the minimum retrigger time. If  $C_{EXT} > 10 \text{ pF}$ , the following formula (where  $V_{CC} = 5.0 \text{ V}$ ) for the set-up time of a retrigger pulse is valid:  $t_{rtrig} = 30 + 0.19 \times R_{EXT} \times C_{EXT}^{0.9} + 13 \times R_{EXT}^{1.05}$  (typ.); where:

t<sub>rtrig</sub> = retrigger time in ns;

C<sub>EXT</sub> = external capacitor in pF;

 $R_{EXT}$  = external resistor in k $\Omega$ .

Inherent test jig and pin capacitance at pins 15 and 7 (nREXT/CEXT) is 7 pF.

[5] When the device is powered-up, initiate the device via a reset pulse, when  $C_{EXT} < 50 \text{ pF}$ .

[6]  $C_{PD}$  is used to determine the dynamic power dissipation (P\_D in  $\mu W)$ :

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma(C_{L} \times V_{CC}^{2} \times f_{o}); \text{ where:}$ 

 $f_i$  = input frequency in MHz;

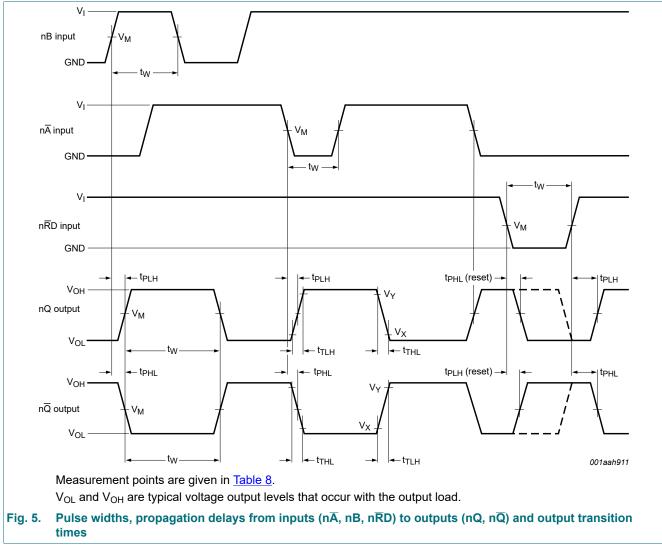
 $f_0$  = output frequency in MHz;

 $C_L$  = 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 outputs.

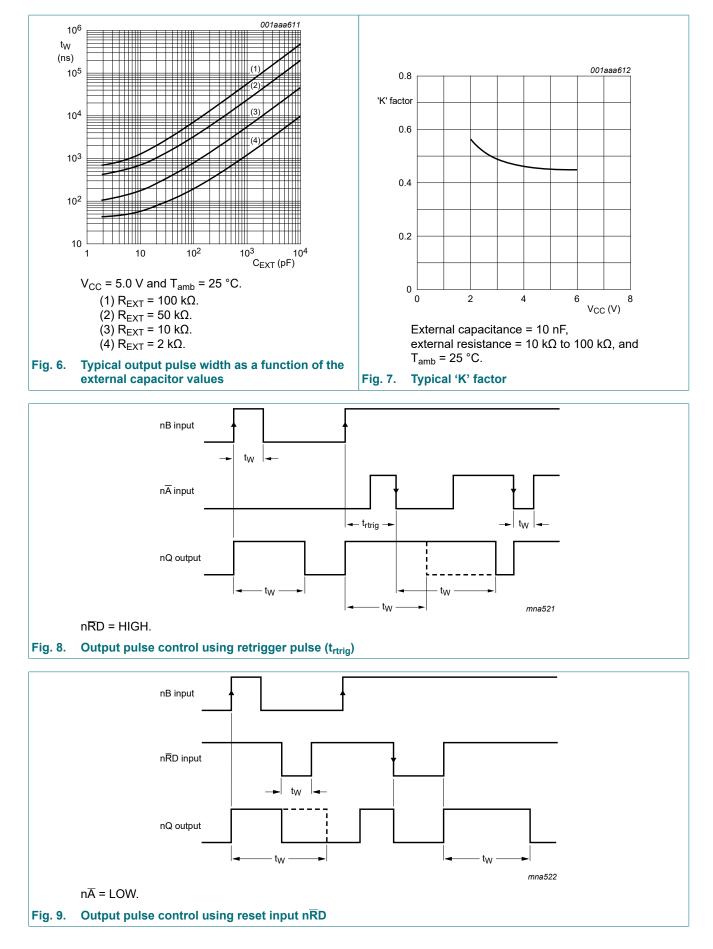


### 10.1. Waveforms and test circuit

Table 8. Measurement points

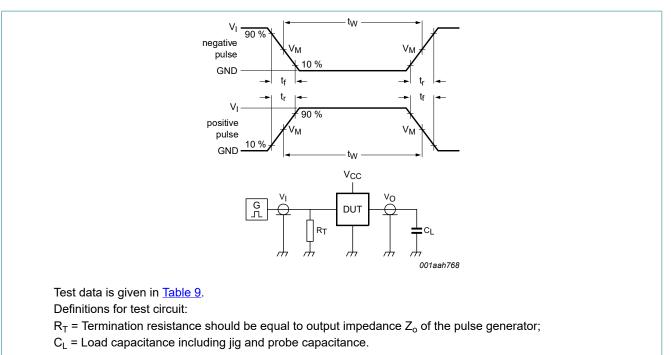
Input		Output				
VI	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>		
V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	0.1 × V <sub>CC</sub>	0.9 × V <sub>CC</sub>		

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### Fig. 10. Test circuit for measuring switching times

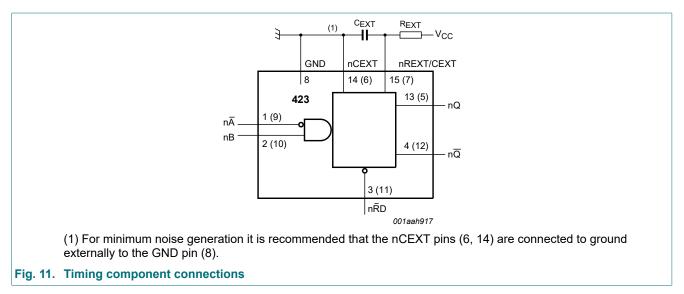
### Table 9. Test data

Supply	Input	Load	
V <sub>cc</sub>	VI	t <sub>r</sub> , t <sub>f</sub>	CL
2.0 V to 6.0 V	V <sub>CC</sub>	6 ns	15 pF, 50 pF

### **11. Application information**

### **11.1. Timing component connections**

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



### 11.1.1. Minimum monostable pulse width

To set the minimum pulse width, when  $C_{EXT} < 10$  nF, see Fig. 6 and when  $C_{EXT} > 10$  nF, the output pulse width is defined as:

 $t_W = 0.45 \times R_{EXT} \times C_{EXT}$  (typ.), where:

t<sub>W</sub> = pulse width in μs;

 $R_{EXT}$  = external resistor in k $\Omega$ ;

C<sub>EXT</sub> = external capacitor in nF.

### 11.2. Power-up considerations

When the monostable 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 circuit shown in Fig. 12.

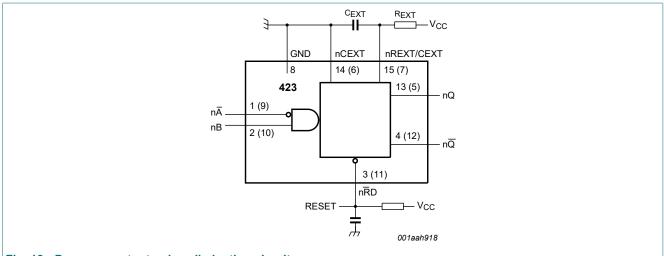
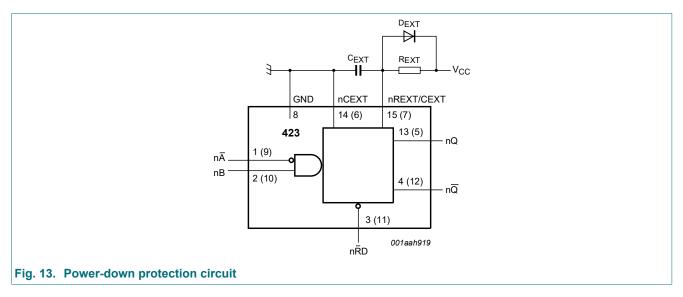


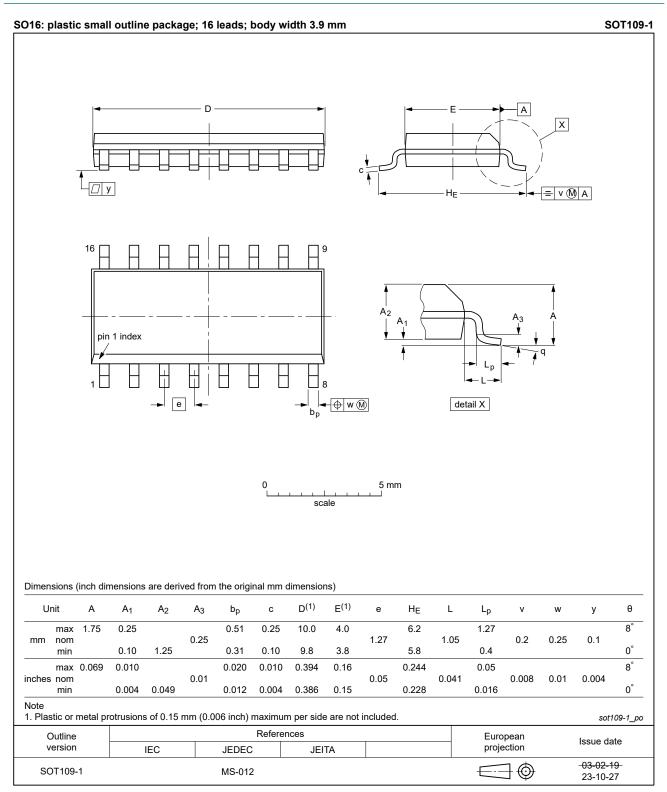
Fig. 12. Power-up output pulse elimination circuit

### 11.3. Power-down considerations

A large capacitor  $C_{EXT}$  may cause problems when powering-down the monostable due to the capacitor's stored energy. 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, use a damping diode  $D_{EXT}$  preferably a germanium or Schottky type diode able to withstand large current surges and connect as shown in Fig. 13.



## 12. Package outline



#### Fig. 14. Package outline SOT109-1 (SO16)

## **13. Abbreviations**

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

# 14. Revision history

### Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC423_Q100 v.1.1	20240313	Product data sheet	-	-
Modifications:	• v.1.1: <u>Section 6</u>	: Corrected typo.		

# 15. 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.

[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 <u>https://www.nexperia.com</u>.

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