Product Overview

NCV308: Low Quiescent Current, Programmable Delay Time Supervisory Circuit

For complete documentation, see the data sheet.

The NCV308 series is one of the ON Semiconductor Supervisory circuit IC families. It is optimized to monitor system voltages from 0.405 V to 5.5 V, asserting an active low open-drain RESET output, together with Manual Reset (MR) Input. The part comes with both fixed and externally adjustable versions.

Features

- Wide Supply Voltage Range 1.6 to 5.5 V
- Very Low Quiescent Current 1.6 µA
- Fixed Threshold Voltage Versions for Standard Voltage Rails Including 1.8 V, 3.3 V, 5.0 V
- Adjustable Version with Low Threshold Voltage 0.405 V (min)
- High Threshold Voltage Accuracy: 0.15 % typ
- Support Manual Reset Input (MR)
- Open-Drain RESET Output (Push-pull Output upon Request)
- Flexible Delay Time Programmability: 1.25 ms to 10 s
- Temperature Range: -40 °C to +125 °C
- Small TSOP-6 Pb-Free Package

  For more features, see the data sheet

Benefits

- Easy to implement into various systems
- Save battery and supply power
- Save external components, simple to design
- Flexible design

Applications

- Automotive
- DSP or Microcontroller Applications
- FPGA/ASIC Applications
- Portable/Battery−Powered Products
- Notebook/Desktop Computers

End Products

- Automotive

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	Voltages Monitored	V_{CC} Max (V)	$V_{(TO)}$ Typ (V)	I_Q Typ (µA)	Reset Active State	Reset Timer	Manual Reset	Watchdog Timer	Package Type
NCV308SN180T1G	0.396	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	5.5	1.8	1.6	Low	Yes	Yes	No	TSOP-6
NCV308SN500T1G	0.396	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	5.5	5	1.6	Low	Yes	Yes	No	TSOP-6

For more information please contact your local sales support at www.onsemi.com.

Created on: 8/7/2020