

## Product Overview

### MAX803: Voltage Supervisor, Very Low Supply Current, 3-Pin Microprocessor, Reset Monitor

For complete documentation, see the data sheet.

The MAX803/NCP803 is a cost-effective system supervisor circuit designed to monitor  $V_{CC}$  in digital systems and provide a reset signal to the host processor when necessary. No external components are required.

The reset output is driven active within 10  $\mu$ sec of  $V_{CC}$  falling through the reset voltage threshold. Reset is maintained active for a timeout period which trimmed by factor after  $V_{CC}$  rises above the reset threshold. The MAX803/NCP803 has an open drain active-low RESET(bar) output. The output of the MAX803/NCP803 is guaranteed valid down to  $V_{CC} = 1.0$  V and is available in a SOT-23 and SC-70 package.

The MAX803/NCP803 is optimized to reject fast transient glitches on the  $V_{CC}$  line. Low supply current of 0.5  $\mu$ A ( $V_{CC} = 3.3$  V) make this device suitable for battery powered applications.

### Features

- Precision  $V_{CC}$  Monitor for 1.5 V, 1.8V, 2.5 V, 3.0 V, 3.3 V and 5.0 V supplies
- Precision Monitoring Voltages from 1.2 V to 4.9 V Available in 100 mV Steps
- Four Guaranteed Minimum RESET Output Duration (1ms, 20ms, 100ms and 140ms)
- RESET Output Guaranteed to  $V_{CC} = 1.0$  V
- Low 0.5  $\mu$ A Supply Current
- $V_{CC}$  Transient Immunity
- Small SOT-23 and SC-70 Package
- No External Components
- Wide Operating Temperature: -40°C to 105°C

### Applications

- Computers
- Embedded Systems
- Battery Powered Equipment
- Critical A Power Supply Monitoring

## Part Electrical Specifications

Product	Compliance	Status	Voltages Monitored	V <sub>CC</sub> Max (V)	V <sub>(TO)</sub> Typ (V)	I <sub>O</sub> Typ (μA)	Reset Active State	Reset Timer	Manual Reset	Watchdog Timer	Package Type
MAX803SQ120T1G	Pb-free	Active	1	5.5	1.2	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ263T1G	Pb-free	Active	1	5.5	2.63	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ293D1T1G	Pb-free	Active	1	5.5	2.93	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ293D2T1G	Pb-free	Active	1	5.5	2.93	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ293D3T1G	Pb-free	Active	1	5.5	2.93	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ293T1G	Pb-free	Active	1	5.5	2.93	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ308D2T1G	Pb-free	Active	1	5.5	3.08	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ308T1G	Pb-free	Active	1	5.5	3.08	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ438T1G	Pb-free	Active	1	5.5	3.08	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
MAX803SQ463T1G	Pb-free	Active	1	5.5	4.63	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	Halide free										
NCV803SQ308D2T1G	AEC Qualified	Active	1	5.5	3.08	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	PPAP Capable										
	Pb-free										
	Halide free										
NCV803SQ308T1G	AEC Qualified	Active	1	5.5	3.08	0.5	Low	Yes	No	No	SC-70-3 / SOT-323-3
	PPAP Capable										
	Pb-free										
	Halide free										

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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