

Product Overview

NCP308: Voltage Supervisor, Ultra Low Quiescent Current, Programmable Delay Time

For complete documentation, see the data sheet.

The NCP308 series is one of the ON Semiconductor Supervisory circuit families. It is optimized to monitor system voltages from 0.405 V up 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 internally adjustable versions

Features

- Very low Quiescent Current 1.6 μ V
- Fixed threshold voltage version for Standard Voltage Rails
- Adjustable threshold version available with low threshold (0.405 V min.)
- High Threshold Voltage Accuracy: 0.31% typical
- Wide Supply voltage range 1.6 to 5.5 V
- Manual Reset Input (/MR) - Open Drain /RESET Output (Push Pull available upon request)
- Flexible Delay Time Programmability (1.25 ms up to 10 s)

Applications

- DSP or Microcontroller based applications
- PDA / Hand-Held Products
- Portable / Battery-Powered Products
- FPGA / ASIC Applications

Benefits

- Saves battery and power supply power
- Saves external components, simple to design
- Flexible design
- Robust design

End Products

- Notebook / Desktop Computers

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Voltages Monitored	V _{CC} Max (V)	V _(T0) Typ (V)	I _Q Typ (µA)	Reset Active State	Reset Timer	Manual Reset	Watchdog Timer	Package Type
NCP308MT090TBG	0.36	Pb-free	Active	1	5.5	0.9	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT120TBG	0.36	Pb-free	Active	1	5.5	1.2	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT125TBG	0.36	Pb-free	Active	1	5.5	1.25	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT150TBG	0.36	Pb-free	Active	1	5.5	1.5	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT180TBG	0.36	Pb-free	Active	1	5.5	1.8	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT190TBG	0.36	Pb-free	Active	1	5.5	1.9	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT250TBG	0.36	Pb-free	Active	1	5.5	2.5	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT280TBG	0.36	Pb-free	Active	1	5.5	2.8	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT300TBG	0.36	Pb-free	Active	1	5.5	3	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT330TBG	0.36	Pb-free	Active	1	5.5	3.3	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MT500TBG	0.36	Pb-free	Active	1	5.5	5	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308MTADJTBG	0.36	Pb-free	Active	1	5.5	0.405 min	1.6	Low	Yes	Yes	No	WDFN-6
		Halide free										
NCP308SN090T1G	0.36	Pb-free	Active	1	5.5	0.9	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN120T1G	0.36	Pb-free	Active	1	5.5	1.2	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN125T1G	0.36	Pb-free	Active	1	5.5	1.25	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN150T1G	0.36	Pb-free	Active	1	5.5	1.5	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN180T1G	0.36	Pb-free	Active	1	5.5	1.8	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN190T1G	0.36	Pb-free	Active	1	5.5	1.9	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN250T1G	0.36	Pb-free	Active	1	5.5	2.5	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN280T1G	0.36	Pb-free	Active	1	5.5	2.8	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN300T1G	0.36	Pb-free	Active	1	5.5	3	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN330T1G	0.36	Pb-free	Active	1	5.5	3.3	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SN500T1G	0.36	Pb-free	Active	1	5.5	5	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCP308SNADJT1G	0.36	Pb-free	Active	1	5.5	0.405 min	1.6	Low	Yes	Yes	No	TSOP-6
		Halide free										
NCV308SN330T1G	0.396	AEC Qualified	Active	1	5.5	3.3	1.6	Low	Yes	Yes	No	TSOP-6
		PPAP Capable										
		Pb-free										
		Halide free										

NCV308SNADJT1G	0.396	AEC Qualified	Active	1	5.5	0.405 min	1.6	Low	Yes	Yes	No	TSOP-6
		PPAP Capable										
		Pb-free										
		Halide free										

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

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