

Product Overview

NCP300: Voltage Detector Series with Complementary Output

For complete documentation, see the data sheet.

The NCP/NCV300 and NCP/NCV301 series are second generation ultra low current voltage detectors. These devices are specifically designed for use as reset controllers in portable microprocessor based systems where extended battery life is paramount. Each series features a highly accurate undervoltage detector with hysteresis which prevents erratic system reset operation as the comparator threshold is crossed. The NCP/NCV300 series consists of complementary output devices that are available with either an active high or active low reset output. The NCP301 series has an open drain N-channel output with either an active high or active low reset output. The NCP/NCV300 and NCP/NCV301 device series are available in the Thin SOT23-5 package with standard under voltage thresholds. Additional thresholds that range from 0.9 V to 4.9 V in 100 mV steps can be manufactured.

Features

- NCV Version for Automotive
- Quiescent Current of 0.5 uA Typical
- High Accuracy Under Voltage Threshold of 2.0%
- Wide Operating Voltage Range of 0.8 V to 10 V
- Complementary or Open Drain Reset Output
- Active Low or Active High Reset Output
- Pb-Free Packages are Available

Benefits

- AEC-Q100 Qualified

Applications

- Power Fail Indicator
- Low Battery Detection
- Battery Backup Detection
- Microprocessor Reset Controller
- Body Electronics

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
NCP300HSN09T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	0.9	0.5	High	No	No	No	TSOP-5 / SOT-23-5
NCP300HSN18T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	1.8	0.5	High	No	No	No	TSOP-5 / SOT-23-5
NCP300HSN27T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	2.7	0.5	High	No	No	No	TSOP-5 / SOT-23-5
NCP300HSN30T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	3	0.5	High	No	No	No	TSOP-5 / SOT-23-5
NCP300HSN45T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	4.5	0.5	High	No	No	No	TSOP-5 / SOT-23-5
NCP300HSN47T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	4.7	0.5	High	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN09T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	0.9	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN185T1G	0.236	Pb-free Halide free non AEC-Q and PPAP	Active	1	10	1.85	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN18T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	1.8	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN20T1G	0.1772	Pb-free Halide free non AEC-Q and PPAP	Active	1	10	2	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN20T3G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	2	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN25T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	2.5	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN27T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	2.7	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN28T1G	0.236	Pb-free Halide free non AEC-Q and PPAP	Active	1	10	2.8	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN30T1G	0.1468	Pb-free Halide free non AEC-Q and PPAP	Active	1	10	3	0.5	Low	No	No	No	TSOP-5 / SOT-23-5
NCP300LSN33T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	3.3	0.5	Low	No	No	No	TSOP-5 / SOT-23-5

NCP300LSN34T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	3.4	0.5	Low	No	No	No	TSOP-5 / SOT-23- 5
NCP300LSN36T1G	0.16	Pb-free Halide free non AEC-Q and PPAP	Active									TSOP-5 / SOT-23- 5
NCP300LSN44T1G	0.236	Pb-free Halide free non AEC-Q and PPAP	Active	1	10	4.4	0.5	Low	No	No	No	TSOP-5 / SOT-23- 5
NCP300LSN45T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	4.5	0.5	Low	No	No	No	TSOP-5 / SOT-23- 5
NCP300LSN46T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	4.6	0.5	Low	No	No	No	TSOP-5 / SOT-23- 5
NCP300LSN47T1G		Pb-free Halide free non AEC-Q and PPAP	Active	1	10	4.7	0.5	Low	No	No	No	TSOP-5 / SOT-23- 5

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