



Product Overview

NCV8768: LDO Regulator, Ultra Low Iq, 150 mA, with Window Watchdog, Enable and Reset

For complete documentation, see the data sheet

Product Description

The NCV8768 is 150 mA LDO regulator with integrated window watchdog and reset functions dedicated for microprocessor applications. Its robustness allows NCV8768 to be used in severe automotive environments, Ultra low quiescent current as low as 31 μ A typical makes it suitable for applications permanently connected to battery requiring ultra low quiescent current with or without load. The Enable function can be used for further decrease of quiescent current down to 1 μ A.

The NCV8768 contains protection functions as current limit and thermal shutdown.

Features

- 5.0 V, $\pm 2\%$, 150 mA
- Ultra Low Quiescent Current: Typ 31 μ A
- Very Low Dropout Voltage
- Enable Function
- Reset with Adjustable Power-on Delay
- Window Watchdog
- Integrated Protection Features:
Current Limitation
Thermal Shutdown
- NCV Prefix for Automotive

Benefits

- Tight regulation limits
- Save battery life
- Maintains output voltage regulation at low input voltages (especially during automotive cranking).
- External control over the device
- Prohibits the microprocessor from performing unrequested tasks at low voltage.
- MPU control
- Self protection
- Meets automotive Site and change control & AEC-Q100 Qualification requirements.

Applications

- Body Control Module
- Instrument and Clusters
- Occupant Protection and Comfort
- Powertrain

End Products

- Automotive

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (μ V _{rms})	Package Type
NCV8768ABD250R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	40	0.225	0.031	60		SOIC-14

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

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