Product Overview

NCV8669: LDO Regulator, 150 mA, Low Dropout, Low Iq

For complete documentation, see the data sheet.

The NCV8669 is 150 mA LDO regulator with integrated reset and early warning functions dedicated for microprocessor applications. Its robustness allows NCV8669 to be used in severe automotive environments. The NCV8669 utilizes precise 1 MΩ internal resistor divider for Early Warning function which significantly reduces overall application quiescent current and number of external components. Very low quiescent current as low as 42 µA typical for NCV8669 makes it suitable for applications permanently connected to battery requiring very low quiescent current with or without load. The NCV8669 contains protection functions as current limit and thermal shutdown.

Features

- 5.0 V, +/-2%, 150 mA
- Very Low Quiescent Current: Typ 42 µA (Including Internal Early Warning Resistor Divider Current)
- Early Warning Threshold Accuracy:+/-10% Over Temperature Range(Using RSI_ext External Resistor with +/-1% 100 ppm/°C)
- Microprocessor Compatible Control Functions:Reset with Adjustable Poweron DelayEarly Warning
- Integrated Protection Features:Current LimitationThermal Shutdown
- AEC Q100 qualified, PPAP capable

Benefits

- Tight regulation limits
- Save battery life
- Precise battery voltage monitoring
- Microprocessor power management feature, design flexibility
- Self protection

Applications

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

End Products

- Automotive

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