



## Product Overview

### NCV8669: Linear Voltage Regulator, LDO, 150 mA, with Reset, Delay and Early Warning

For complete documentation, see the data sheet

#### Product Description

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 M 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  $\mu$ A 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,  $\pm 2\%$ , 150 mA
- Very Low Quiescent Current: Typ 42  $\mu$ A (Including Internal Early Warning Resistor Divider Current)
- Early Warning Threshold Accuracy:  $\pm 10\%$  Over Temperature Range (Using RSI\_ext External Resistor with  $\pm 1\%$  100 ppm/ $^{\circ}$ C)
- Microprocessor Compatible Control Functions: Reset with Adjustable Poweron Delay Early Warning
- Integrated Protection Features: Current Limitation Thermal 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

#### Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O</sub> Typ (A)	V <sub>I</sub> Max (V)	V <sub>DO</sub> Typ (V)	I <sub>q</sub> Typ (mA)	PSRR (dB)	Noise ( $\mu$ V <sub>rms</sub> )	Package Type
NCV866952D250R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	40	0.225	0.042	60		SOIC-14

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