

## Product Overview

### NCV4949C: LDO Regulator, 100 mA, Low Dropout

For complete documentation, see the data sheet.

The NCV4949C is a monolithic integrated 5.0 V voltage regulator with a very low dropout and additional functions such as reset and an uncommitted voltage sense comparator. It is designed for supplying microcontroller/microprocessor controlled systems particularly in automotive applications. The NCV4949C has improved reset behavior for lower input and output voltage levels.

#### Features

- Very Low Dropout Voltage Less Than 0.4V
- Integrated Voltage Sense Comparator and Power On Reset
- Programmable Reset Pulse Delay With External Capacitor
- Integrated Protections: - Thermal Shutdown - Short Circuit Transient Input Voltage Up to 60V
- 5.0V / 100mA High Precision Standby Output Voltage +/- 1% at 25C ambient temperature

#### Benefits

- Operates at lower input voltage during cranking.
- Decrease BOM cost and save space while managing microcontroller power management
- Design flexibility
- Suitable in harsh automotive environment

#### Applications

- Powertrain and Engine Control
- Body and Chassis

#### End Products

- Automotive

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Output	Polarity	V <sub>O</sub> (V)	I <sub>O Typ</sub> (A)	V <sub>I Min</sub> (V)	V <sub>I Max</sub> (V)	V <sub>DO Typ</sub> (V)	I <sub>q Typ</sub> (mA)	PSR R (dB)	Noise (μV <sub>rms</sub> )	Enable	Power Good	Package Type
NCV4949CDR2G	0.3333	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.1	5.5	40	0.22	0.12			No	No	SOIC-8
NCV4949CPDR2G	0.46	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.1	5.5	40	0.22	0.12			No	No	SOIC-8 EP

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