

## Product Overview

### NCV4949A: Linear Voltage Regulator, LDO, 100 mA, with Reset and Sense

For complete documentation, see the data sheet

#### Product Description

The NCV4949A 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 NCV4949A 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 40V
- 5.0V / 100mA High Precision Standby Output Voltage +/- 1% at 25C ambient temperature
- AEC-Q100 qualified

#### 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	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 (μV <sub>rms</sub> )	Package Type
NCV4949ADR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.1	28	0.3	0.15			SOIC-8
NCV4949ADWR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.1	28	0.3	0.15			SOIC-20W
NCV4949APDR2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.1	28	0.3	0.15			SOIC-8 EP

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