

## Product Overview

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

For complete documentation, see the data sheet.

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> Min (V) | 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> ) | Enable | Power Good | Package Type |
|---------------|---|--------|--------|----------|--------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-----------|----------------------------|--------|------------|--------------|
| NCV4949ADR2G  | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | Single | Positive | 5                  | 0.1                    | -                      | 28                     | 0.3                     | 0.15                    | -         | -                          | No     | No         | SOIC-8       |
| NCV4949ADWR2G | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | Single | Positive | 5                  | 0.1                    | -                      | 28                     | 0.3                     | 0.15                    | -         | -                          | No     | No         | SOIC-20W     |
| NCV4949APDR2G | AEC Qualified<br>PPAP Capable<br>Pb-free<br>Halide free | Active | Single | Positive | 5                  | 0.1                    | -                      | 28                     | 0.3                     | 0.15                    | -         | -                          | No     | No         | SOIC-8 EP    |

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