

Product Overview

NCV4250-2C: LDO Regulator, 50 mA, Ultra-Low Dropout, High PSRR

For complete documentation, see the data sheet.

The NCV4250-2C is a monolithic integrated low dropout tracking voltage regulator designed to provide a buffered output voltage that closely tracks the reference input voltage. The part can be used in automotive applications with remote sensors or any situation where it is necessary to isolate the output of the other regulator. The NCV4250-2C also enables the user to bestow a quick upgrade to their module when added current is needed and the existing regulator cannot provide.

Features

- Up to 50 mA Source Capability
- Low Output Tracking Tolerance
- Low Dropout (typ. 120 mV @ 10 mA)
- Low Quiescent Current in Stand-by Mode
- Current Limitation
- Thermal Shutdown
- Reverse Input Voltage and Reverse Bias Voltage
- AEC-Q100 Grade 1 Qualified and PPAP Capable
- Wide Input Voltage Operating Range

Applications

- Sensor Applications
- Increased Regulator Capability

Benefits

- Capability to power sensors external to the automotive module.
- Accurate tracking for use with A/D converters.
- Works well during automotive cranking.
- New automotive module requirements.
- Protective feature.
- Protective feature.
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- Automotive requirement.

End Products

- Automotive

Part Electrical Specifications

| Product | Pricing (\$/Unit) | Compliance | Status | Output | Polarity | V _o (V) | I _o Typ (A) | V _{Min} (V) | V _{Max} (V) | V _{DO} Typ (V) | I _q Typ (mA) | PSRR (dB) | Noise (μV _{rms}) | Enable | Power Good | Package Type |
|-----------------|-------------------|---|--------|--------|----------|--------------------|------------------------|----------------------|----------------------|-------------------------|-------------------------|-----------|----------------------------|--------|------------|--------------------|
| NCV4250-2CSNT1G | 0.2027 | AEC Qualified PPAP Capable Pb-free Halide free | Active | Single | Positive | Tracking | 0.05 | 4 | 40 | 0.12 | 0.075 | 70 | - | Yes | No | TSO P-5 / SOT-23-5 |

For more information please contact your local sales support at www.onsemi.com.

Created on: 3/31/2020