

Product Overview

NCV4264-2C: LDO Regulator, 100 mA, Low Iq, High PSRR

For complete documentation, see the data sheet.

The NCV4264-2C is a low quiescent current consumption LDO regulator. Its output stage supplies 100 mA with +/-2.0 % output voltage accuracy. Maximum dropout voltage is 500 mV at 100 mA load current. It is internally protected against 45 V input transients, input supply reversal, output overcurrent faults, and excess die temperature. No external components are required to enable these features.

Features

- Maximum 60 μ A Quiescent Current with 100 μ A Load
- Very Low Dropout 500 mV (max) at 100 mA Load Current
- Fault Protections: -42 V Reverse Voltage Protection Short Circuit/Overcurrent Protection Thermal Overload Protection
- 5.0 V and 3.3 V Fixed Output Voltage with 2% Output Voltage Accuracy, Over Full Temperature Range
- AEC-Q100 Qualified

Benefits

- Save battery life when in standby mode.
- Can operate during cranking at low input voltage.
- No external components required to enable protections required within any automotive applications.

Applications

- Engine Control Module
- Body and Chassis
- Powertrain

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 (μ V _{rms})	Enable	PowerGood	Package Type
NCV4264-2CST33T3G	0.4133	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.1	-42	45	0.23	0.033	67	-	No	No	SOT-223-4 / TO-261-4D
NCV4264-2CST50T3G	0.4133	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.1	-42	45	0.27	0.033	67	-	No	No	SOT-223-4 / TO-261-4D

Application Diagram

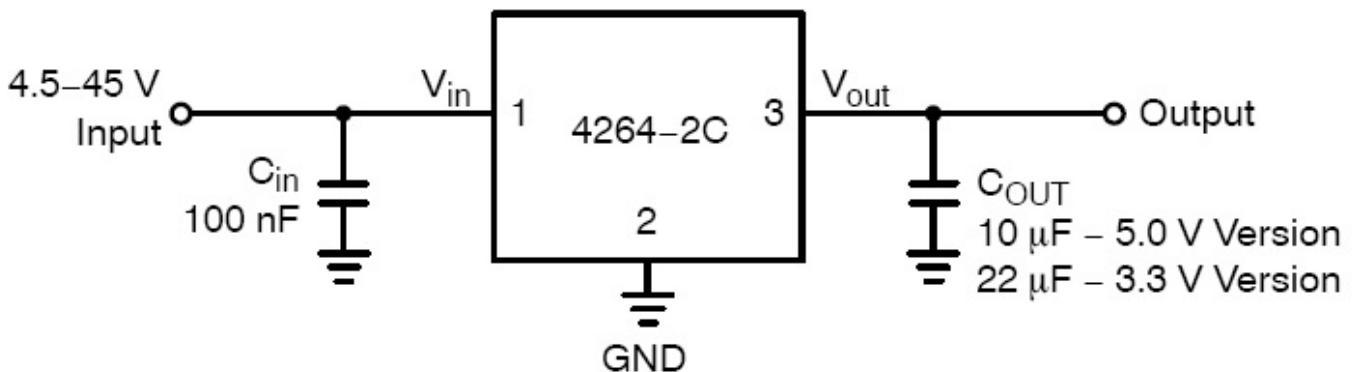


Figure 2. Applications Circuit

