

Product Overview

NCV8664C: Linear Voltage Regulator, LDO, Very Low Iq, 150 mA

For complete documentation, see the data sheet

Product Description

The NCV8664C is a precision 3.3 V and 5.0 V fixed output, low dropout integrated voltage regulator with an output current capability of 150 mA. Careful management of light load current consumption, combined with a low leakage process, achieve a typical quiescent current of 22 μ A. The output voltage is accurate within ± 2.0 %, and maximum dropout voltage is 600 mV at full rated load current.

It is internally protected against input supply reversal, output overcurrent faults, and excess die temperature. No external components are required to enable these features.

NCV8664C is pin and functionally compatible with NCV4264, NCV4264-2, NCV4264-2C and could replace these parts when lower quiescent current is required.

Features

- Maximum 30 μ A Quiescent Current with 100 μ A Load
- Very Low Dropout 600 mV (max) at 150 mA Load Current
- Protections:
-42 V Reverse Voltage Protection
Short Circuit Protection
Thermal Overload Protection
- 5.0 V and 3.3V Fixed Output Voltage with 2% Output Voltage Accuracy
- AEC-Q100 Grade 1 Qualified and PPAP Capable

Benefits

- Meets new car manufacturer Max Module Quiescent Current requirements (maximum 100 μ A).
- 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
- Infotainment, Radio

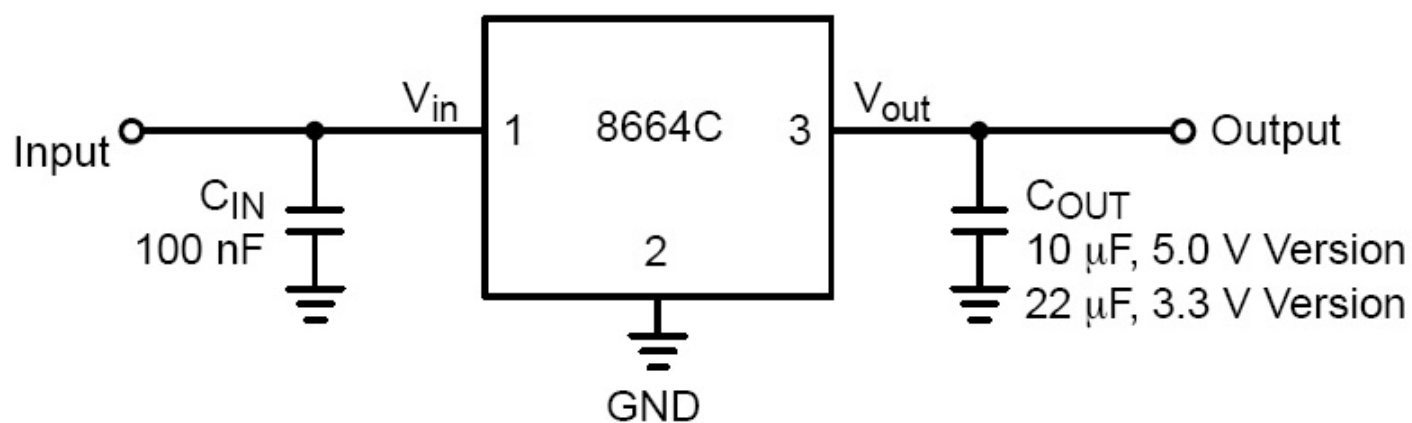
End Products

- Automotive

Part Electrical Specifications

Product	Compliance	Status	Output	Polarity	V _O (V)	I _O Typ (A)	V _I Max (V)	V _{DO} Typ (V)	I _q Typ (mA)	PSRR (dB)	Noise (μ V _{rms})	Package Type
NCV8664CST33T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.15	45		0.022	67		SOT-223-4 / TO-261-4
NCV8664CST50T3G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15	45	0.27	0.022	67		SOT-223-4 / TO-261-4

Application Diagram



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

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