



## Product Overview

### NCV8664: Linear Voltage Regulator, LDO, Very Low Iq



For complete documentation, see the data sheet.

The NCV8664 is a precision 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 ground current of 22  $\mu$ A.

The output voltage is accurate within  $\pm 2.0\%$ , 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.

NCV8664 is pin and functionally compatible with NCV4264 and NCV4264-2, and it could replace these parts when very low quiescent current is required.

### Features

- Maximum 30 $\mu$ A Quiescent Current with 100 $\mu$ A load
- Protections:
  - 42 V Reverse Voltage Protection
  - Short Circuit Protection
  - Thermal Overload Protection
- Very Low Dropout Voltage
- 5.0 V and 3.3V Fixed Output Voltage with 2% Output Voltage Accuracy
- AEC-Q100 Qualified
- Automotive

### Benefits

- Meets new car manufacturer Max Module Quiescent Current requirements (maximum 100 $\mu$ A).
- No external components required to enable protections required within any automotive applications.
- Can operate during cranking at low input voltage.

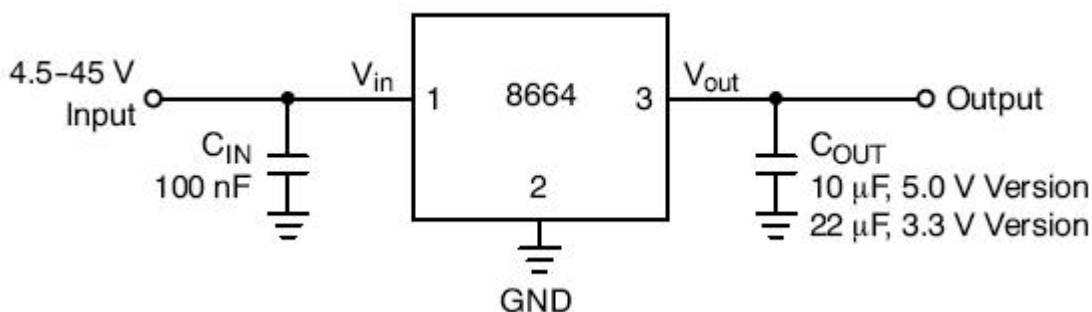
### Applications

- Body and Chassis
- Powertrain
- Engine Control Module
- Infotainment, Radio

## 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 ( $\mu$ V <sub>rms</sub> )	Enable	Power Good	Package Type
NCV8664D50R2G	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.15		45	0.315	0.021	67				SOIC-8

### Application Diagram



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 11/6/2017