



## Product Overview

### NCV8774: 350 mA Low IQ LDO Linear Voltage Regulator

For complete documentation, see the data sheet

#### Product Description

The NCV8774 is a 350 mA LDO regulator. Its robustness allows NCV8774 to be used in severe automotive environments. Ultra low quiescent current as low as 18  $\mu$ A typical makes it suitable for applications permanently connected to battery requiring ultra low quiescent current with or without load. This feature is especially critical when modules remain in active mode when ignition is off. The NCV8774 contains protection functions as current limit, thermal shutdown and reverse output current protection.

#### Features

- Fixed Output Voltage of 5 V and 3.3 V
- 2 % Output Voltage up to  $V_{in} = 40$  V
- Output Current up to 350 mA
- NCV Prefix for Automotive
- Low Dropout Voltage
- Ultra Low Quiescent Current of 18 A Typical
- Thermal Shutdown
- Short Circuit
- Very Wide Range of Cout and ESR Values for Stability
- Body Control Module

#### Benefits

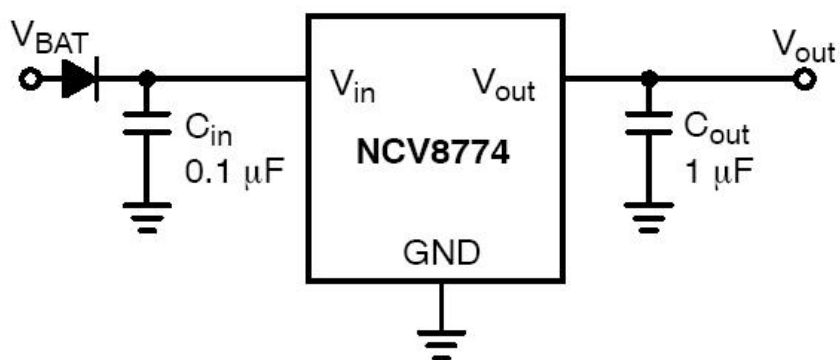
- Perfect for powering microprocessors.
- Maintains regulated voltage through load dump.
- Our vast portfolio of automotive regulators allows you to select the one which fits your application.
- Meets automotive Site and change control & AEC-Q100 Qualification requirements.
- Maintains output voltage regulation at low input voltages (especially during automotive cranking).
- Meets the latest automotive module requirement of less than 100  $\mu$ A.
- Protects the device from permanent damage at high temperatures.
- Protects the device from creating metal opens on-chip due to excessive current.
- Ensures stability for any type of Output capacitor.

#### End Products

#### 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 ( $\mu$ V <sub>rms</sub> )	Package Type
NCV8774DT33RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	3.3	0.35	45	0.44	0.018	54		DPAK-3
NCV8774DT50RKG	AEC Qualified PPAP Capable Pb-free Halide free	Active	Single	Positive	5	0.35	45	0.44	0.018	54		DPAK-3

## Application Diagram



**Figure 1. Typical Application Schematic**

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

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