

Product Overview

NCV4276: 400 mA LDO Linear Voltage Regulator with Enable

For complete documentation, see the data sheet.

The NCV4276 is a 400 mA output current integrated low dropout regulator family designed for use in harsh automotive environments. It includes wide operating temperature and input voltage ranges. The family is available with fixed output voltages of 1.8 V, 2.5 V, 3.3 V and 5.0 V with 4% output voltage accuracy. The adjustable, 5.0V and 3.3V output voltage products are available in 2% or 4% accuracy versions. The output is stable over a wide output capacitance and ESR range. This family has a 45 V peak input voltage and reverse input voltage protection. It also provides overcurrent protection, overtemperature protection and an inhibit pin for control of the state of the output voltage. The NCV4276 family is available in DPAK and D2 surface mount packages.

Features

- 5 V, 3.3 V, 2.5 V, 1.8 V, or adjustable +/-2% or +/-4% Output Voltage
- Output Current up to 400 mA
- 500 mV (max) Dropout Voltage
- Enable
- Protections: +45 V Peak Transient Voltage -42V Reverse Voltage Short Circuit Thermal Overload
- AEC-Q100 Qualified

Benefits

- Perfect for powering microprocessors
- Our vast portfolio of automotive regulators allows you to select the one which fits your application.
- Regulates during cranking.
- Save battery life - quiescent current down to 10µA max.
- No external components required to enable protections required within any automotive applications.
- Meets automotive qualification requirements.

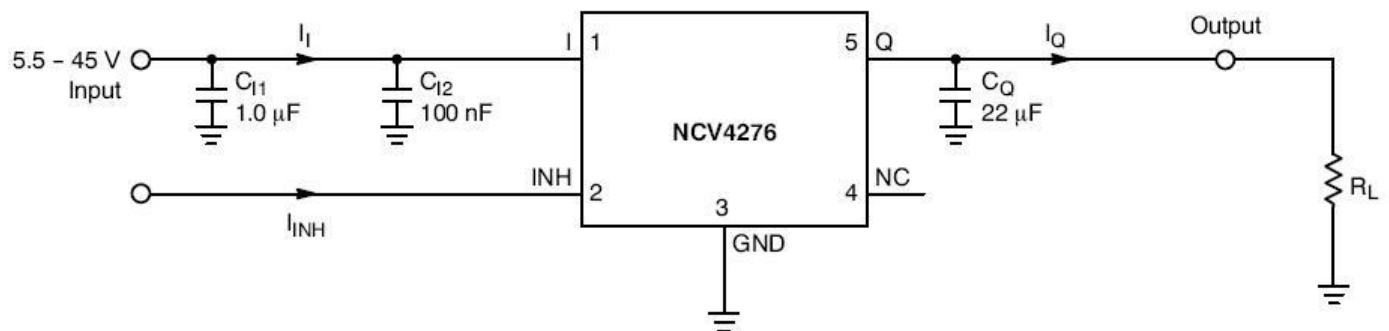
Applications

- Body and Chassis
- Engine Control Unit
- Powertrain

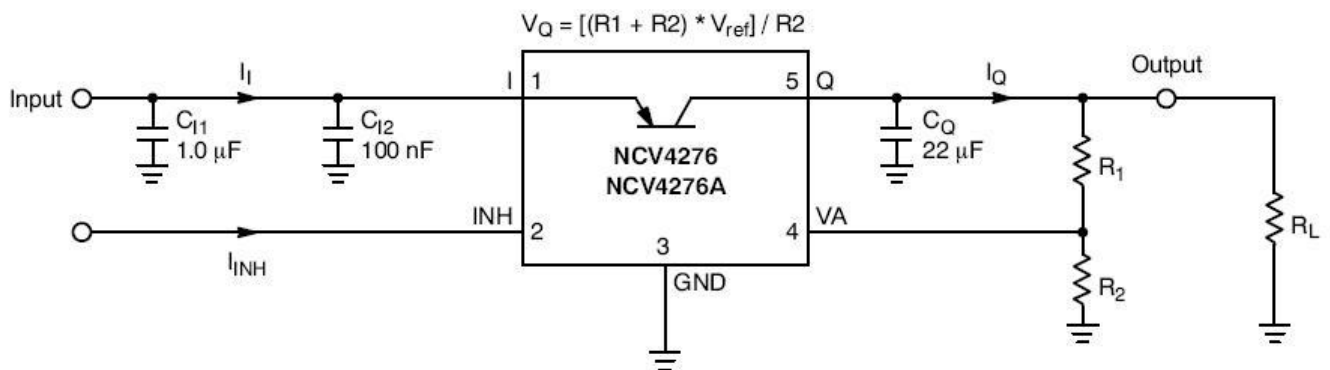
End Products

- Automotive

Application Diagram



Applications Circuit; Fixed Voltage Version



Applications Circuit; Adjustable Voltage Version

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

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