

■ General Description

The AME8868 has a low dropout regulator with 150mA output driving capacity and ultralow Quiescent Current.

The AME8868 can work in a wide operation range from 2.5V up to 24V input voltage. The quiescent current is small even at high input voltage. The typical current is about 6.6 μ A.

The devices feature an integrated short-circuit and over current protection.

The AME8868 device is available in SOT-23, SOT-25 and SOT-89 packages.

■ Features

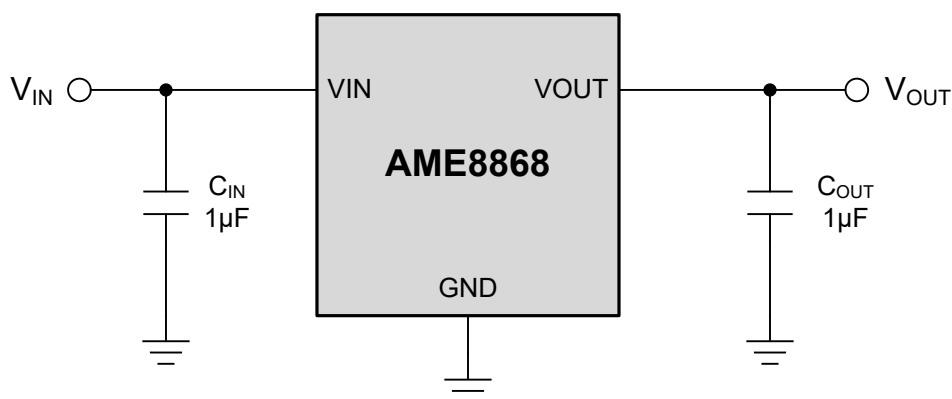
- Input Voltage Range: 2.5V to 24V
- Output Voltage Range:
Fixed Version: 3.3V / 5.0V
ADJ Version: 1.24V to 5.0V
- Output Current: 150mA
- 6.6 μ A Quiescent Current (Typical)
- 189mV Low Dropout Voltage at 100mA Load Current
- Internal Input Under-Voltage Lockout Protection
- Internal Short Circuit Protection
- Internal Over Current Protection
- Internal Over Temperature Protection
- RoHS, TSCA & HF Compliance

■ Application

- Keep-Alive Supply in Notebook and Portable Computers
- Always-On Battery Application
- USB Power Supply
- Low Power Microcontrollers

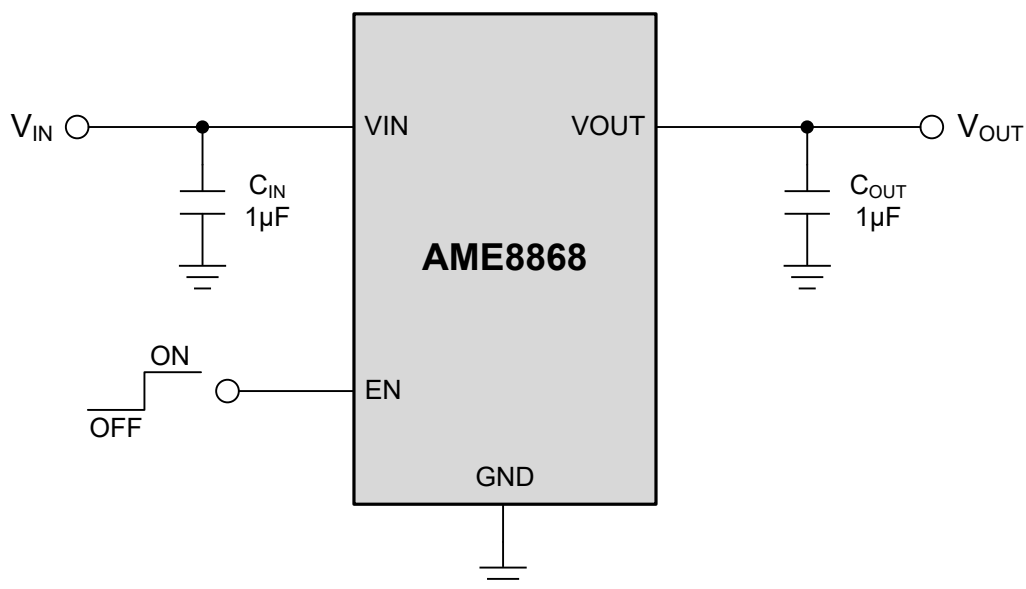
■ Typical Application Schematic

SOT-23 / SOT-89 Fixed Version

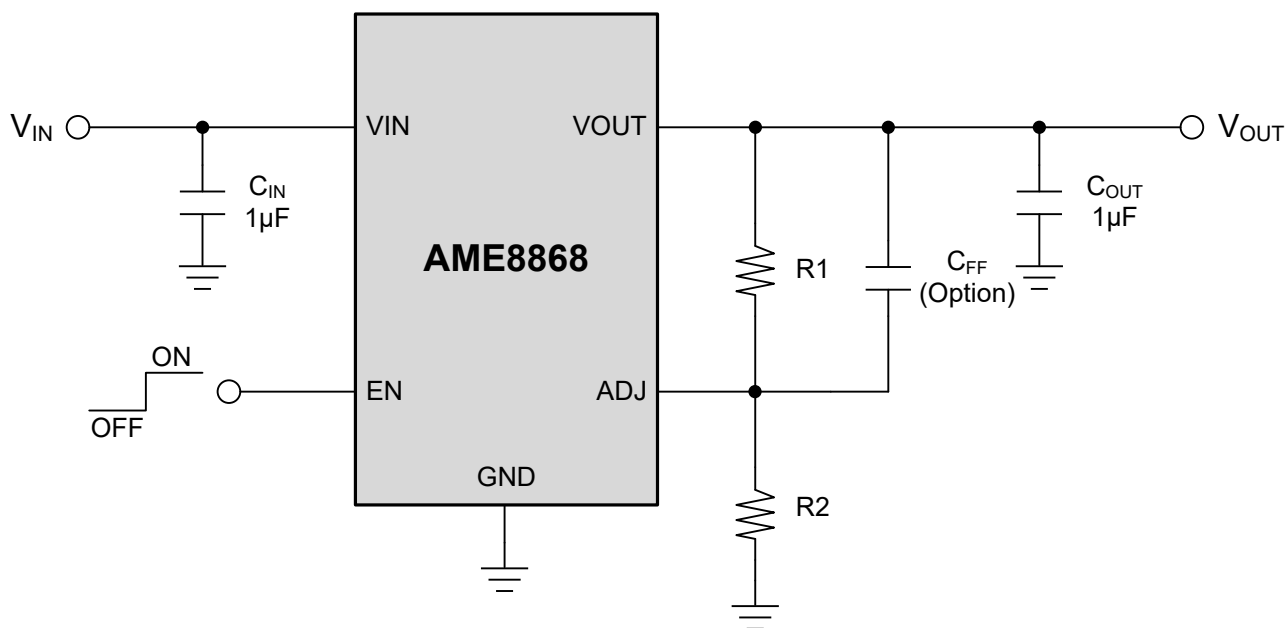


■ Typical Application Schematic (Contd.)

SOT-25 Fixed Version



SOT-25 ADJ Version





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Life Support Policy:

These products of AME, Inc. are not authorized for use as critical components in life-support devices or systems, without the express written approval of the president of AME, Inc.

AME, Inc. reserves the right to make changes in the circuitry and specifications of its devices and advises its customers to obtain the latest version of relevant information.

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