



THE DATASHEET OF MP2013AGJE-33-C672-Z



MP2013A

40V, 150mA, Low-Quiescent Current Linear Regulator

DESCRIPTION

The MP2013A is a low-power, linear regulator that supplies power to systems with high-voltage batteries. It includes a wide 2.5V to 40V input range, low-dropout voltage and low-quiescent-supply current. The low-quiescent current and low-dropout voltage allow operation at extremely low-power levels. The MP2013A is ideal for low-power microcontrollers and battery-powered equipment.

The MP2013A provides a wide variety of fixed, output-voltage options: 1.8V, 1.9V, 2.3V, 2.5V, 3.0V, 3.3V, 3.45V, and 5.0V, and it provides an adjustable output option (from 1.215V to 15V).

The regulator output current is internally limited; the device is protected against over-load and over-temperature conditions. The MP2013A includes thermal shutdown (TSD) and current-limiting fault protection. It is available in QFN6 (2x2mm), and QFN8 (3x3mm) packages.

FEATURES

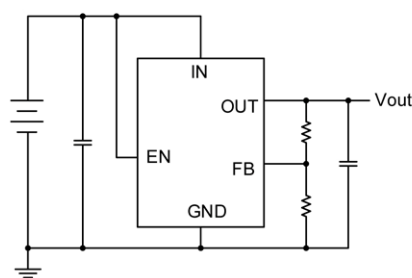
- 2.5V to 40V Input Range
- 3.2 μ A Quiescent-Supply Current
- Stable with Low-Value Output Ceramic Capacitor ($> 0.47 \mu$ F)
- 150mA Specified Current
- 620mV Dropout at 150mA Load
- Available in Fixed and Adjustable Output (1.215 V to 15 V) Versions
- $\pm 2\%$ Output Accuracy
- Specified Current Limit
- Thermal Shutdown
- -40°C to $+125^{\circ}\text{C}$ Specified Junction-Temperature Range
- Available in QFN6 (2x2mm), and QFN8 (3x3mm) Packages

APPLICATIONS

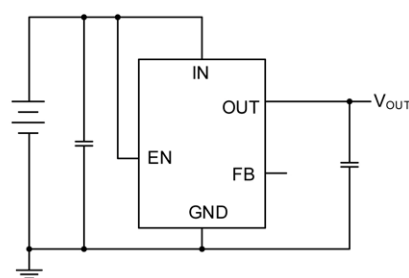
- Industrial/Automotive Applications
- Portable/Battery-Powered Equipment
- Ultra Low-Power Microcontrollers
- Cellular Handsets
- Medical Imaging

All MPS parts are lead-free and adhere to the RoHS directive. For MPS green status, please visit MPS website under Products, Quality Assurance page. "MPS" and "The Future of Analog IC Technology" are registered trademarks of Monolithic Power Systems, Inc.

TYPICAL APPLICATION



Output Adjustable Version



Output Fixed Version

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ View [MP2013AGJE-33-C672-Z](#) on WIN SOURCE
- ⊖ [Monolithic Power Systems Inc.](#) Information

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management