



MP2013A

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

DESCRIPTION

The MP2013A is a low-power, linear regulator that supplies • 2.5V to 40V Input Range power to systems with high- voltage batteries. It includes a • 3.2µA Quiescent-Supply Current wide 2.5V to 40V input range, low-dropout voltage and low- • Stable with Low-Value Output Ceramic Capacitor (> 0.47 µF) quiescent-supply current. The low-quiescent current and low- • 150mA Specified Current dropout voltage allow operation at extremely low-power • 620mV Dropout at 150mA Load levels. The MP2013A is ideal for low-power microcontrollers • Available in Fixed and Adjustable Output (1.215 V to 15 V) and battery-powered equipment.

The MP2013A provides a wide variety of fixed, output-voltage • ±2% Output Accuracy options: 1.8V, 1.9V, 2.3V, 2.5V, 3.0V, 3.3V, 3.45V, and 5.0V, • Specified Current Limit and it provides an adjustable output option (from 1.215V to • Thermal Shutdown

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

FEATURES

- Versions

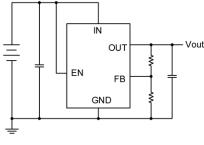
- -40°C to +125°C Specified Junction-Temperature Range

APPLICATIONS

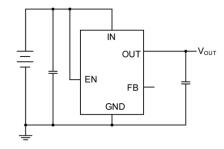
- Industrial/Automotive Applications
- · Portable/Battery-Powered Equipment
- · Ultra Low-Power Microcontrollers
- · Cellular Handsets
- · Medical Imaging

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 Fixed Version

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