FEATURES
The MP2013A is a low-power, linear regulator that supplies • 2.5 V to 40 V Input Range
power to systems with high- voltage batteries. It includes a $\quad 3.2 \mu \mathrm{~A}$ Quiescent-Supply Current
wide 2.5 V to 40 V input range, low-dropout voltage and low- • Stable with Low-Value Output Ceramic Capacitor (> $0.47 \mu \mathrm{~F}$ ) quiescent-supply current. The low-quiescent current and low- • 150mA Specified Current
dropout voltage allow operation at extremely low-power • 620 mV Dropout at 150 mA Load
evels. The MP2013A is ideal for low-power microcontrollers • Available in Fixed and Adjustable Output ( 1.215 V to 15 V )
and battery-powered equipment. Versions
The MP2013A provides a wide variety of fixed, output-voltage • $\pm 2 \%$ Output Accuracy
options: $1.8 \mathrm{~V}, 1.9 \mathrm{~V}, 2.3 \mathrm{~V}, 2.5 \mathrm{~V}, 3.0 \mathrm{~V}, 3.3 \mathrm{~V}, 3.45 \mathrm{~V}$, and 5.0 V , • Specified Current Limit
and it provides an adjustable output option (from 1.215 V to • Thermal Shutdown
15 V ). $-40^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ Specified Junction- Temperature Range
The regulator output current is internally limited; the device is • Available in QFN6 ( $2 \times 2 \mathrm{~mm}$ ), 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 $(2 \times 2 \mathrm{~mm})$, and QFN8 (3x3mm) packages.

## APPLICATIONS

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

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## TYPICAL APPLICATION



