

AS1360 Product Brief

1.5µA Low-Power, Positive Voltage Regulator

1 General Description

The AS1360 low-power, positive voltage regulator was designed to deliver up to 250mA while consuming only 1.5μ A of quiescent current. The device is available in fixed output voltages of 1.8, 2.5, 3.0, 3.3, and 5.0V.

The device features integrated short-circuit and overcurrent protection.

The wide input voltage range, low-dropout voltage, and high-accuracy output voltage makes the device perfectly suited for 2- and 3-cell battery-powered and portable applications.

The low dropout voltage (650mV) prolongs battery life and allows high current in small applications when operated with minimum input-to-output voltage differentials.

The device features very stable output voltage (using only $1\mu F$ tantalum or aluminum-electrolytic capacitors), strict output voltage regulation tolerances ($\pm 0.5\%$), and excellent line-regulation.

The AS1360 is available in a 3-pin SOT23 package.

2 Key Features

■ Low Quiescent Current: 1.5µA

Input Voltage Range: Up to 20V

Low Dropout Voltage

- 250mV @ 100mA

- 400mV @ 200mA

Fixed Output Voltages: 1.8, 2.5, 3.0, 3.3, 5.0V

■ High Output Current: 250mA (Vout = 5.0V)

■ High-Accuracy Output Voltage: ±1.5%

Exceptional Line Regulation: 0.1%/V

Low Temperature Drift: ±100ppm/°C

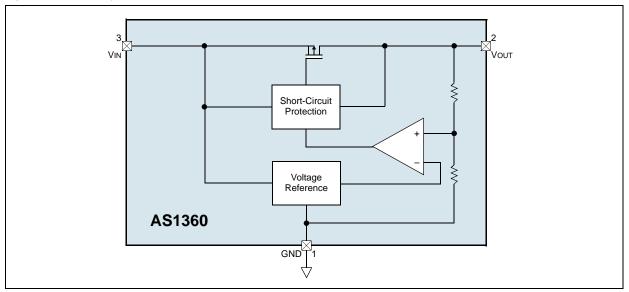
■ Integrated Short-Circuit and Overcurrent Protection

■ 3-pin SOT23 Package

3 Applications

The device is ideal for mobile phones, PDAs, digital cameras, smart battery packs, battery-powered alarms, solar-powered instruments, intelligent instruments, CO2 and smoke detectors, CPU power supplies, and any battery-powered application.







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