

Low Power BiCMOS process 1A LDO KF8168 series

GENERAL DESCRIPTION

KF8168 series of linear voltage linear regulator, the use of bipolar CMOS process technology developed low quiescent current (90uA), low dropout voltage, high output voltage accuracy characteristics. Space-efficient SOT223, TO252 package is attractive "pocket" and "handheld" applications.

Output voltages are set at the factory and trimmed to 1.5%accuracy. Voltages from 3.3V to 5.0V are available.

These rugged devices have both Thermal Shutdown, and Current Foldback to prevent device failure under the "Worst" of operating conditions.

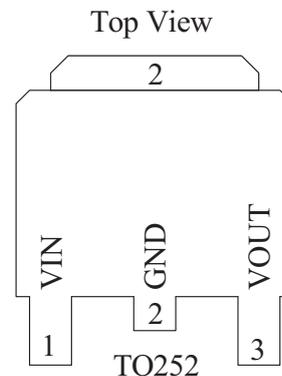
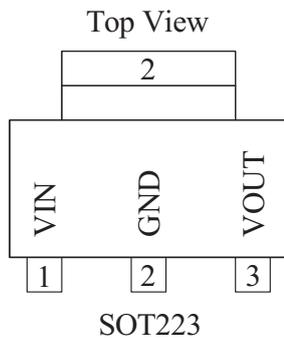
FEATURES

- Very Low Dropout Voltage , <400mV when 0.8A
- Low Current Consumption: Typ. 90uA
- High Accuracy Output Voltage: +/- 1.5%
- Guaranteed 0.8A (if $V_{in}-V_{out}<1700mV$ in SOT223)
- Output up to 0.3A if down 12V to +5V in SOT223
- Output up to 0.5A if down 12V to +5V in TO252
- Compact Package: SOT-223 and TO252
- Factory Pre-set Output Voltages
- Short Circuit Current Fold-Back
- Low Temperature Coefficient

APPLICATIONS

- Battery-powered devices
- Personal communication devices
- Home electric/electronic appliances
- PC peripherals , hard-disk

PIN CONFIGURATION



Typical Application Circuit

