

300mA High PSRR, Low Noise LDO

Regulator

❖ GENERAL DESCRIPTION

The AX6608 is a low dropout, high PSRR, low noise linear regulator with very low quiescent. It can supply 300mA output current with low dropout about 250mV. The Device includes pass element, error amplifier, band-gap, current-limit and thermal shutdown circuitry. The characteristics of low dropout voltage and less quiescent current make it good for some critical current application, for example, some battery powered devices. The typical quiescent current is approximately 30 μ A. In the shutdown mode, the maximum supply current is less than 1 μ A. Due to internal flexible design, result in extensively fixed output voltage versions is 1.2V and form 1.5V to 3.3V per 0.1V steps. Built-in current-limit and thermal-shutdown functions prevent any fault condition from IC damage.

❖ FEATURES

- Input voltage range : 2.8V~5.5V
- Dropout voltage is 250mV at 300mA output current
- Guaranteed 300mA output current
- Low quiescent current is 30 μ A (typ.)
- Maximum supply current in shutdown mode <1 μ A
- Fixed Output voltage is 1.2 V and from 1.5V to 3.3V by 0.1V steps.
- High PSRR=73dB@1KHz
- Fast transient response
- Current limit and thermal shutdown protection
- Available in the 5-Pin Pb-Free SOT23 and SC70 Packages