

250mA high PSRR Low Dropout Voltage Regulator

Description

The MT7107 is a 250mA high PSRR Low Dropout (LDO) Linear Regulator that's ideal for RF and data communication applications. It consumes extremely low I_q of 12 μ A at no load, while offers superior PSRR over the full load range. MT7107 operates from 2.5V to 5.5V with built-in soft-start and 450mA current limit. Hiccup mode for over-load or short circuit condition and thermal shut down provides robust protection in the event of fault. The MT7107 is stable with 1.0 μ F ceramic output capacitor. MT7107 offers a wide range of fixed output voltage to choose from 0.9V, 1.2V, 1.5V, and 1.8V. These devices are available in space saving SOT23_5L, SC70_5L and DFN 4L 1x1 package.

Features

- 12 μ A Quiescent Current
- Input Voltage Range 2.5V to 5.5V
- Up to 250mA Peak Output Current
- High PSRR up to 100kHz
- Built-in soft start
- Built-in Current Limit with Hiccup Mode Protection
- Accurate Threshold for Enable Pin
- Output Discharge in Shutdown
- Stable with a 1 μ F ceramic capacitor
- Available in SOT23_5L, SC70_5L Package and DFN 4L 1x1
- Pb-Free (ROHS compliant)

Applications

- Ultra-Low Power Microcontrollers
- Cellular/Cordless Handsets
- Portable/Battery-Powered Equipment

Typical Application