
High PSRR, 200mA Low Dropout Regulator

FEATURES

- 2.5V to 5.5V input range
- 200mA guaranteed output current
- 65dB PSRR @1KHz, $V_{IN} = V_{OUT} + 1V$
- 64dB PSRR @10KHz, $V_{IN} = V_{OUT} + 1V$
- Low quiescent current: 28uA (Typ.)
- 180mV maximum dropout voltage with 100mA load
- < 1uA quiescent current at shutdown mode
- Fast turn on time: 72us (typical)
- Thermal shutdown and short-circuit current limit
- 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V typical output standard
- Miniature SOT-23-5 package

APPLICATION

- CDMA/GSM mobile phones
- handheld telephones
- WLAN and bluetooth appliances
- PDAS/MP3 handsets
- Battery powered portable devices

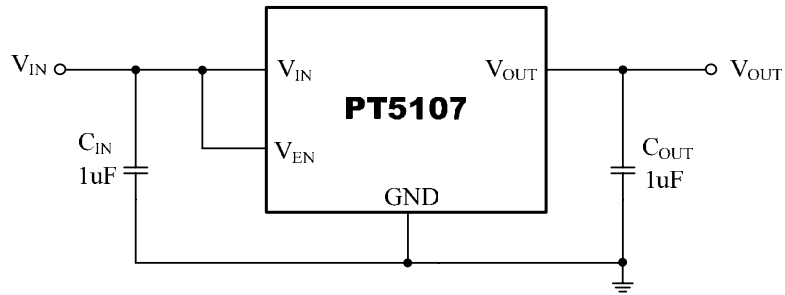
GENERAL DESCRIPTION

The PT5107 is a low-dropout voltage regulator designed for portable and wireless applications that require high PSRR, low quiescent current and excellent line and load transient response. The PT5107 is designed to work with small 1 μ F input and output ceramic capacitors. The quiescent current is as low as 28uA.

With its better than 63dB PSRR at 10kHz, the PT5107 is ideal for battery powered systems for delivering low dropout voltage and low quiescent current.

The device can be used for mobile phones and similar battery powered wireless applications. It provides up to 200mA, from a 2.5V to 5.5V input. The PT5107 consumes less than 0.1 μ A in shutdown mode. The PT5107 is available in 5 pin SOT23packages. The output standards of 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.3V are available.

TYPICAL APPLICATIONS



C_{OUT} : Recommended ceramic capacitor