

# High Output Current LDO Regulator , High PSRR , Low Dropout, ME6207 Series

#### **General Description**

The ME6207 Series is a positive voltage regulator with a low dropout voltage, high output voltage accuracy, and low crrent consumption developed based on CMOS technology.

A built-in low on-resistance transistor provides a low dropout voltage and large output current, a built-in overcurrent protector prevents the load current from exceeding the current capacitance of the output transistor. An ON/OFF circuit ensures a long battery life. Compared with the voltage regulators using the conventional CMOS process, a larger variety of capacitors are available, including small ceramic capacitors.

## Features

- Maximum Output Current: 800 mA
  (V<sub>IN</sub> > V<sub>OUT</sub>(T)+1.0V)
- Dropout Voltage: 100mV@ I<sub>OUT</sub> =300mA,V<sub>OUT</sub> =5.0V
  - Operating Voltage Range: 2V~6.5V
- Highly Accuracy: ±1%
- Low Current Consumption: During Operation: 82uA (TYP.) During Shutdown:0.1uA (TYP.)
- High Ripple Rejection: 65dB@1KHz (ME6207C50)
- Line Regulation: 0.05% (TYP.)

## **Typical Application**

- Power supply for DVD and CD-ROM drives
- Power supply for personal communication device
- Power supply for battery-powered devices
- Power supply for note PCs

**Typical Application Circuit** 

#### Package

- 3-pin SOT89-3
- 5-pin SOT89-5,SOT23-5,TO252-5



