

**High Output Current LDO Regulator , High PSRR , Low Dropout, ME6217 Series**

**General Description**

The ME6217 Series is a positive voltage regulator with a low dropout voltage, high output voltage accuracy, and low current 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 ( $V_{IN} \geq V_{OUT(T)} + 1.0V$ )
- Dropout Voltage: 100mV@  $I_{OUT} = 300mA$ ,  $V_{OUT} = 5.0V$
- Operating Voltage Range: 2V~6.5V
- Output Voltage: 1.5V~5.6V , selectable in 0.1V steps
- Highly Accuracy:  $\pm 1\%$
- Low Current Consumption:  
During Operation: 100uA (TYP.)  
During Shutdown: 0.1uA (TYP.)
- High Ripple Rejection: 65dB@1KHz (ME6217C50)
- Line Regulation: 0.05% (TYP.)
- Thermal Shutdown Protection: 160°C

**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

**Package**

- 5 pin: SOT89-5, SOT23-5

**Typical Application Circuit**

