
Low ESR Cap Compatable Positive Voltage Regulators

General Description

The **ME6401** series are highly precise, low power consumption, high voltage, positive voltage regulators manufactured using CMOS and laser trimming technologies. The series provides large currents with a significantly small dropout voltage.

The series is compatible with low ESR ceramic capacitors. The current limiter's foldback circuit also operates as a short protect for the output current limiter and the output pin.

Features

- Maximum Output Current: 450mA
($V_{IN}=3.8V, V_{OUT}=2.8V$)
- Dropout Voltage: 200mV@ $I_{OUT}=100mA$
- Operating Voltage Range: 1.2V~5.0V
- Highly Accuracy: $\pm 2\%$
- Low Power Consumption: 90uA (TYP.)
- Standby Current: 0.1uA (TPY.)

Typical Application

- Mobile phones
- Cordless phones, radio communication equipment
- Portable games
- Cameras, Video cameras
- Reference voltage sources
- Battery powered equipment

Package

- 6-pin SOT23-6