
400mA , Ultralow Output Voltage 0.8V, Adjustable ,High Speed LDO ME6222 Series

General Description

The ME6222 series are highly accurate, low noise, LDO Voltage Regulators .The output voltage can be set via the external resistor. On chip trimming adjusts the reference/output voltage to within $\pm 2\%$ accuracy. Internal protection features consist of output current limiting, safe operating area compensation, and thermal shutdown. The current limiter's feedback circuit also operates as a short protect for the output current limiter and the output pin. The CE function allows the output of regulator to be turned off, resulting in greatly reduced power consumption. The ME6222 series can operate with up to 18V input.

Features

- Voltage Setting via External Resistor: 0.8V~5.0V
- Maximum Output Current: 400mA
- Dropout Voltage:
125mV@ $I_{OUT} = 100\text{mA}$ ($V_{out} = 3.3\text{V}$)
- Operating Voltage Range: 2.8V~18V
- Highly Accuracy: $\pm 2\%$
- Standby Current: 45uA (TYP.)
- Line Regulation: 30mV (TYP.)
- Temperature Stability $\leq 0.5\%$
- Thermal Shutdown Protection: 165°C

Applications

- Consumer and Industrial Equipment Point of Regulation
- Switching Power Supply Post Regulation
- Hard Drive Controllers
- Battery Chargers

Package

- 5-pin SOT23-5