

500mA, Low Quiescent, Low Dropout LDO Linear Regulators

General Description

ME6210 series are low quiescent, low-dropout linear voltage regulators. ME6210 series are based on the CMOS process and allow high voltage input. The allow operation voltage as high as 18V. ME6210 series have short circuit protection function.

Features

- High output accuracy: $\pm 2\%$
- Input voltage: 2V to 18V
- Output voltage: 1.5V ~ 5.0V
- Ultra-low quiescent current (Typ. = 1.5 μ A)
- Output Current: $I_{out} = 500\text{mA}$
(When $V_{in} = 4\text{V}$ and $V_{out} = 3\text{V}$)
- Low dropout voltage: 11mV@ $I_{out} = 10\text{mA}$ (Typ. $V_{out} = 3.0\text{V}$)
- Input good stability: Typ. 0.03% / V
- Short-circuit Current: Typ. 50mA
- Ceramic capacitor can be used

Typical Application

- Power source for home electric/electronic appliances
- Power source for battery-powered devices
- Power source for personal communication devices

Package

- 3-pin SOT89-3, SOT23-3, SOT23, TO92

Typical Application Circuit

