

36V Input 1.5uA I_Q Low-Dropout Regulator**DESCRIPTION**

The MT7109 ultra-low quiescent current low-dropout (LDO) linear regulators are ideal for use in industrial and battery operated systems. These devices operate from an input voltage of 3.5V to 36V, and consume only 1.5uA of quiescent current at no load. The internal p-channel pass device keeps the quiescent current low even at full load. The enable pin EN is compatible with standard CMOS logic. The MT7109 is stable with 1uF output capacitor. The MT7109 also comes with thermal shutdown and current limit to protect the device during fault conditions. MT7109 has fixed 1.8V, 2.8V, 3V, 3.3V, 3.6V, 5V, 9V or 12V output voltage. These devices are available in space-saving SOT23_5L package.

FEATURES

- Wide Input Range from 3.5V to 36V
- Low 1.5uA Quiescent Current
- Stable Operation with a 1uF ceramic capacitor
- Dropout Voltage: 600mV at 100mA
- High Accuracy Output Voltage $\pm 2\%$
- Fixed Output Voltages: 1.8V, 2.8V, 3.0V, 3.3V, 3.6V, 5V, 9V and 12V
- Thermal Shutdown and Over-current Protection
- CMOS Logic Level-Compatible Enable Pin
- Available in SOT23_5L Package

APPLICATIONS

- Ultra-Low Power Microcontrollers
- Power Tool
- PD MCU
- Car navigation

TYPICAL APPLICATIONS