

Features

- Maximum 1.2A Low-Dropout Voltage Regulator
- Ultra Low Dropout Voltage
Typically 400mV at 1A Output Current
- High Output Accuracy over Line, Load and Temperature
- Build-In Soft-Start
- Excellent startup under load from 0 to 1.2A
- Power-On-Reset Monitoring on V_{DD} Pin
- Foldback over Current Protection and Thermal shutdown
- Low ESR Output Capacitor(Multi-layer Chip Capacitors (MLCC)) Applicable
- SOT-223, SOT-89-5,TO-252,TO-263 and PSOP-8 package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- Notebook PC Applications
- Motherboard Applications
- LCD Monitor
- Telecom Equipment
- Graphic Cards
- DVD-video Player

General Description

The GS7112 is a three-terminal regulator which can deliver up to 1A of continuous output current with a typical dropout voltage of only 400mV using internal p-channel MOSFETs.

The GS7112 allows the use of low-ESR ceramic capacitor as low as 4.7uF. Moreover the IC provides good performance on both line transient response and load transient response.

The GS7112 provides foldback over current limit and thermal shutdown to prevent the linear regulator from damage. Built-in soft-start minimizes stress on the input power source by reducing capacitive inrush current on start-up.

The GS7112 is available in the SOT-223, SOT-89-5,TO-252,TO-263 and PSOP-8 package.