

Features

- Maximum 500mA peak output current
- Ultra Low Dropout Voltage
 Typically 200mV at 500mA Output Current
- High Output Accuracy over Line, Load and Temperature
- Build-In Soft-Start
- Excellent startup under load from 0 to 500mA
- 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
- TSOT-23-5,SOT-23-5 and TDFN6-2x2 packages
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

General Description

The GS7116 is a high performance regulator which can deliver up to 500mA of continuous output current with a typical dropout voltage of only 200mV using internal p-channel MOSFETs. The GS7116 allows the use of low-ESR ceramic capacitor as low as 4.7uF. Moreover the IC

capacitor as low as 4.7uF. Moreover the IC provides good performance on both line transient response and load transient response.

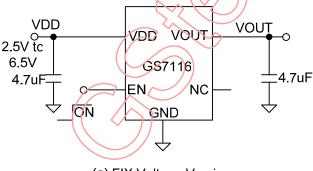
The GS7116 provides foldback over current limit and thermal shutdown to prevent the linear regulator from damage. Built-in soft-start minimizes stress on the input power source by reducing capacitive inrush current on start-up.

The GS7116 is available in the TSOT-23-5, SOT-23-5 and TDFN6-2x2 packages.

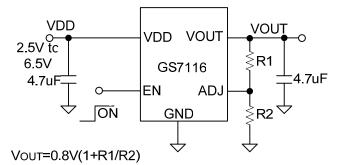
Applications

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

Typical Application



(a) FIX Voltage Version



(b) Adjustable Voltage Version

Figure 1 Typical Application of GS7116

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