Features

- 3A Output Current
- 4.5V to 23V Input Voltage Range
- ±1.5% High Accuracy Feedback Voltage
- Integrated N-MOSFET Switches
- Current Mode Control
- Fix Frequency Operation : 340KHz
- Output Adjustable from 0.8V to 20V
- Up to 95% Efficiency
- Programmable Soft-Start
- Over Current Protection (Hiccup mode)
- Input Under Voltage Lockout
- Output Under Voltage Protection
- Thermal Shutdown Protection
- PSOP-8 package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- LCD TVs and Monitors
- Notebook
- Computer Peripherals
- Set Top Boxes
- Wireless AP/ WLAN Power supplies

General Description

The GS7317 is small size chip with a high efficiency synchronous buck switching converter suitable for applications in notebook computers and other LCD Monitors. GS7317 include an internal low Ron resistance power switch, it is capable of delivering 3.0A output current over a wide input voltage form 4.5V to 23V.

GS7317 is current mode operation with internal compensation. The IC's switching frequency is fixed internally at 340kHz. Moreover, the GS7317 will take the same method to regulate the output voltage when input voltage changes. When transient response regulated, the converter will maintain a new steady-state operation.

The integrated gate drivers feature adaptive shoot-through protection, fast signal transmission. Additional features include current limit hiccup mode, soft start, under voltage protection, over voltage protection and over-temperature protection. The GS7317 is available in package PSOP-8.