

Features

- Wide Input Voltage Range: 2.5V~5.5V
- Heavy Load 3A
- Current mode operation
- Fix Frequency : 1MHz
- Adjustable 0.6V~80%*VIN Output Range
- Stable with Ceramic Output Capacitors
- Build-in Soft-Start
- Over-voltage/under-voltage fault protection
- Low quiescent power dissipation
- Internal Short Current Protection
- Over temperature protection(Non-Latch)
- Integrated Low Rds(on) Upper and Lower MOSFET Switches: 70mΩ and 50mΩ
- TDFN10-3x3 package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- Notebook computers
- FPGA/ASIC Power Supplies
- Chip/RAM Supplies
- Battery-Powered Portable Devices
- Point-of-Load Regulation

General Description

The GS7302 is small size chip with a high efficiency synchronous buck switching converter suitable for applications in notebook computers and other battery operated portable devices. GS7302 include an internal low on resistance power switch, it is capable of delivering 3.0A output current over a wide input voltage form 2.5V to 5.5V.

GS7302 is current mode operation with internal compensation. The IC's switching frequency is fixed internally at 1MHz. Moreover, the GS7302 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 output voltage is adjustable from 0.6V to 0.8*Vin by a voltage divider.

The integrated gate drivers feature adaptive shoot-through protection, fast signal transmission. Additional features include current limit, soft-start, over-voltage, under-voltage protection and a power good flag. The GS7302 is available in package TDFN10-3x3.