

**Features**

- 200KHz Constant Switching Frequency
- VBAT Rang= 4.5V~13.2V
- Support 0.6V Internal Reference Voltage
- 0-80% Duty Cycle
- Soft-Start Circuit Built-In
- Short Circuit Protection
- Under Voltage Protection and Over Voltage Protection
- Flexible Over Current Protection Setting
- Thermal Fault Protection
- Integrated Bootstrap Diode
- PSOP-8 package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

**General Description**

The GS7252 is a single buck controller working in a voltage mode with fixed 200 kHz frequency. It allows wide input voltage which is either a single 5~12V or two supply voltages for various applications, and the output voltage can be precisely regulated to as low as 0.6V with a maximum tolerance of  $\pm 1.0\%$ .

The GS7252 is equipped with accurate current-limit, under-voltage output and over-voltage output protections. Otherwise, It includes internal soft-start and built-in bootstrap diode to simplify the circuit design.

The GS7252 is available in a simple PSOP-8 Package.

**Applications**

- Mother Board
- Graphic cards
- Cable Modems, Set Top Boxes, and Xdsl Supplies
- Low cost PC

**Typical Application**

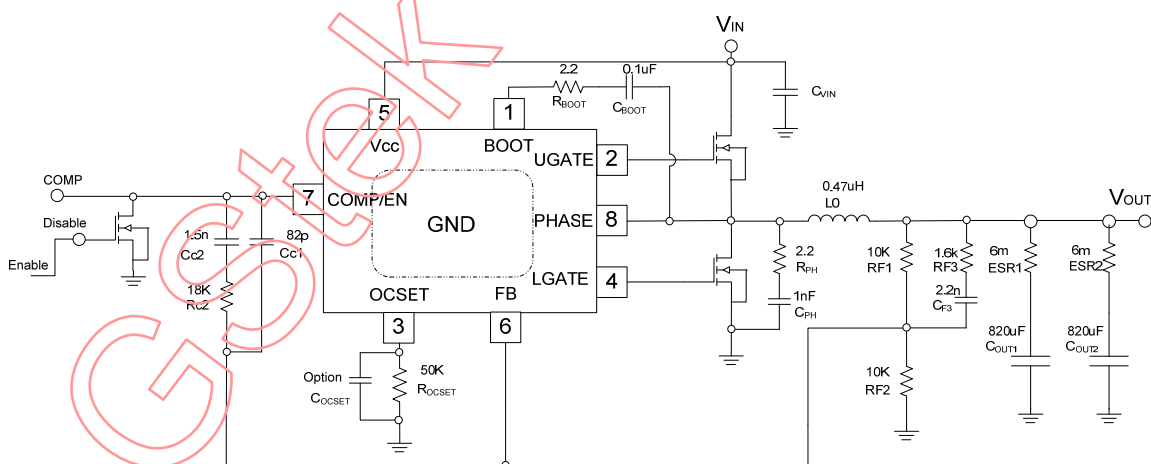


Figure 1 Typical Application of GS7252

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