

GREEN SOLUTION's PRODUCTS INTRO

A SEMICONDUCTOR IS A MATERIAL THAT HAS AN ELECTRICAL RESISTIVITY BETWEEN THAT OF A CONDUCTOR AND AN INSULATOR. AN EXTERNAL ELECTRICAL FIELD CHANGES A SEMICONDUCTOR'S RESISTIVITY...



Low Quiescent Current LDO

Low Noise LDO

Ultra Low Dropout LDO

High Performance Single Synchronous Buck Controller (COT)

Single Synchronous Buck Controller (Voltage Mode)

High Performance Single Synchronous Buck Converter(MCM)

High Performance Single Synchronous Buck Converter

High Performance Single Asynchronous Buck Converter (CC/CV)

High Performance Single Buck Controller (CC/CV)

LED Backlight

Battery Protector/Balance

Power Multiplexer for USB High Side Switch (5VSB,5VCC)

Power Distribution Switch for USB

5V Dual Power Switch Controller

Load Switch

High Precision Voltage Console With I2C (VID)

DDR Terminator Regulator

DDR Memory Power Solution Converter

DDR Memory Power Solution Controller

High Voltage Gate Driver

Lower Voltage Gate Driver

OPA,Comparator

Sync. Boost Controller

IPM

POWER MODULE

Power Balance Switch

PRODUCTS 產品資訊

產品搜尋



> Single Phase Synchronous Buck Controller

General Description

The GS7256 is a single buck controller working in a voltage mode with fixed 600 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 $\pm 1.0\%$.

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The GS7256 is equipped with accurate current-limit, under-voltage output and over-voltage output protections. Otherwise, it includes internal 3.6ms digital soft-start and built-in bootstrap diode to simplify the circuit design.

The GS7256 is available in a simple PSOP-8 Package.

Features

- 600KHz Constant Switching Frequency
- VBAT Rang= 4.5V~13.2V
- Support 0.6V Internal Reference Voltage
- 0-80% Duty Cycle
- 3.6ms Digital 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)

Applications

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

Typical Application

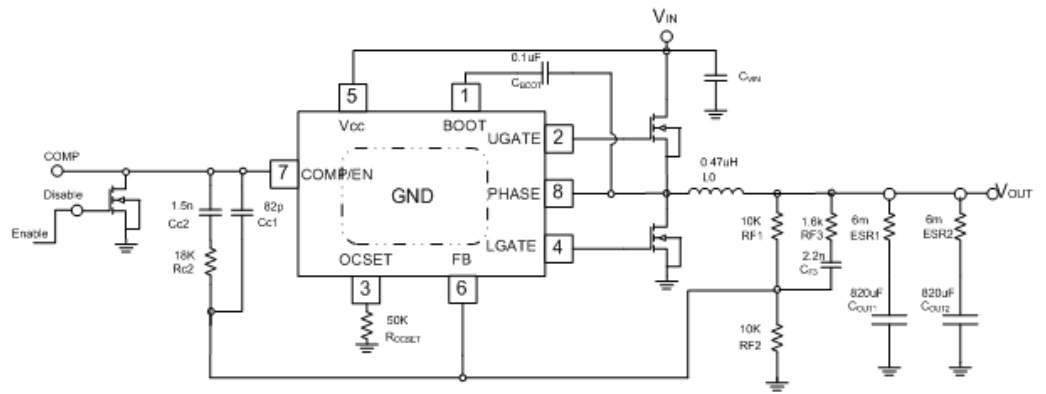


Figure 1 Typical Application of GS7256

Pin Configuration

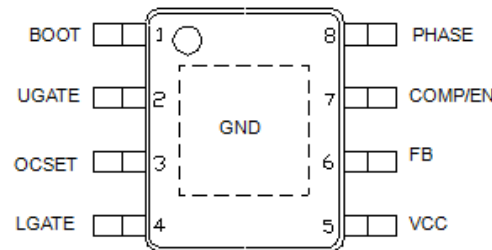


Figure 3a PSOP-8 (SO) Package

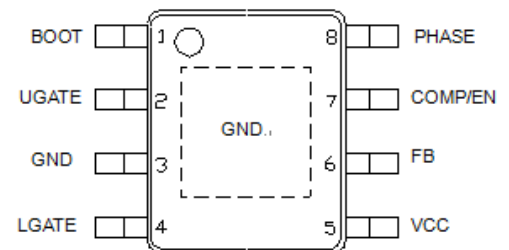


Figure 3b PSOP-8(SP) Package

Ordering Information

GS7256PP-R
 1. Package 2. Shipping

No	Item	Contents
1	Package	SO: PSOP-8 SP: PSOP-8
2	Shipping	R: Tape & Reel

Example: GS7256 PSOP-8(SO) Tape & Reel ordering information is "GS7256SO-R"