

Non-Synchronous PWM Boost Controller



General Description

The FP5208 and FP5208B are boost topology switching regulator for wide operating voltage applications. They provide built-in gate driver pin for driving external N-MOSFET. The non-inverting input of error amplifier connects to a 0.6V precision reference voltage. They have programmable soft start time and PWM frequency set by external capacitors and resistors. FP5208B has programmable current detection and over current protection set by external resistors.

The FP5208B is available in the small footprint DFN-12L package to fit in space-saving PCB layout for application fields.

Features

- Wide Supply Voltage Operating Range: 2.5V to 24V
- Precision Feedback Reference Voltage: 0.6V ($\pm 2\%$)
- Shutdown Current: $< 1\mu\text{A}$
- Programmable PWM Frequency: 100KHz~1000KHz
- Programmable Soft Start Function (SS)
- Light Load Detection / FP5208B
- Programmable Over Current Protection (OCP) / FP5208B
- Over Temperature Protection (OTP)
- Package: SOP-8L(EP) / FP5208, DFN-12L / FP5208B

Applications

- Chargers
- LCD Displays
- Handheld Devices
- Portable Products

Typical Application Circuit

