

General Description

The TCS5109 is boost topology switching regulator for wide operating voltage applications. It provides built-in gate driver pin for driving external N-MOSFET. The non-inverting input of error amplifier connects to a 1.2V precision reference voltage. It has programmable switching frequency set by external resistor, and programmable inductor peak current limit connects a resistor from CS to GND. Current mode control and external compensation network make is easy and flexible to stabilize the system.

The TCS5109 is available in the small footprint SOP-8L(EP) package to fit in space-saving PCB layout for application fields.

Features

Start-up Voltage: 2.8V

Wide Supply Voltage Operating Range: 5V to 24V

Precision Feedback Reference Voltage: 1.2V (±2%)

Shutdown Current: <3µA

Programmable Switching Frequency: 100KHz~1000KHz

Input Under Voltage Protection(UVP)

Switching MOSFET Over Current Protection (OCP)

Over Temperature Protection (OTP)

Package: SOP-8L(EP)

Applications

Chargers

LCD Displays

Handheld Devices

Portable Products

Power Bank

Typical Application Circuit

