

PG79314 PG79312 Stackable 50A eFuse with Hot Swap Protection and Current Monitoring

Features

- Wide input voltage range: 4V to 16V
- Integrated 0.8mΩ Pass MOSFET
- Accurate current monitor
- Adjustable output soft start time
- Paralleled operation for higher current applications
- Adjustable current limit
- Fixed 100A Short circuit current limit
- Fast trip short-circuit protection
- Fault indication and fault type output
- Input OV, over current, short circuit, over-temperature protections. Latch mode for PG79314, auto-retry mode for PG79312
- Input to output short circuit detection
- 5x5mm LGA package
- RoHS compliant and Green

Applications

- PCI and PCIe cards
- Servers
- Networking
- Hotswap

Description

The PG79314 is an active circuit protection device with integrated MOSFET used to limit current and voltage to safe levels during fault conditions.

The current limit level can be configured by the resistor between CLREF and ground. Additionally, the device includes an integrated current sense and offers current monitor signal.

To limit the inrush current during device turn-on, the output soft start time can be set by a capacitor between SS and ground.

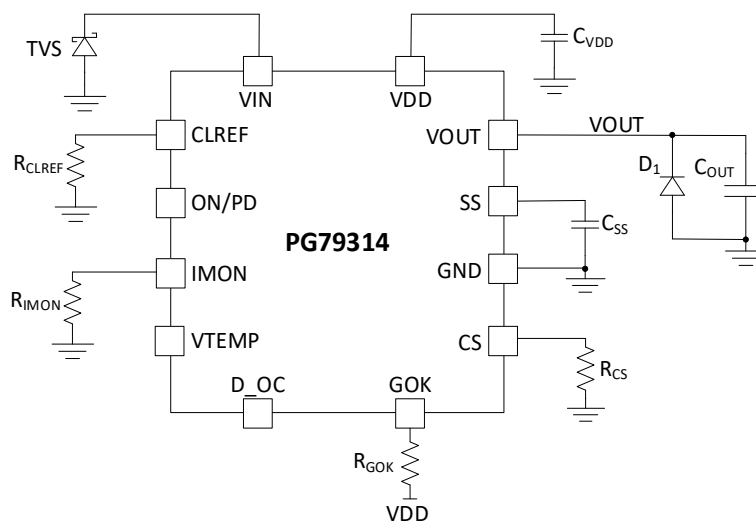
Moreover, the device provides a fault indication (GOK) to the system for monitoring and control.

For higher current applications, the PG79314 can be connected in parallel.

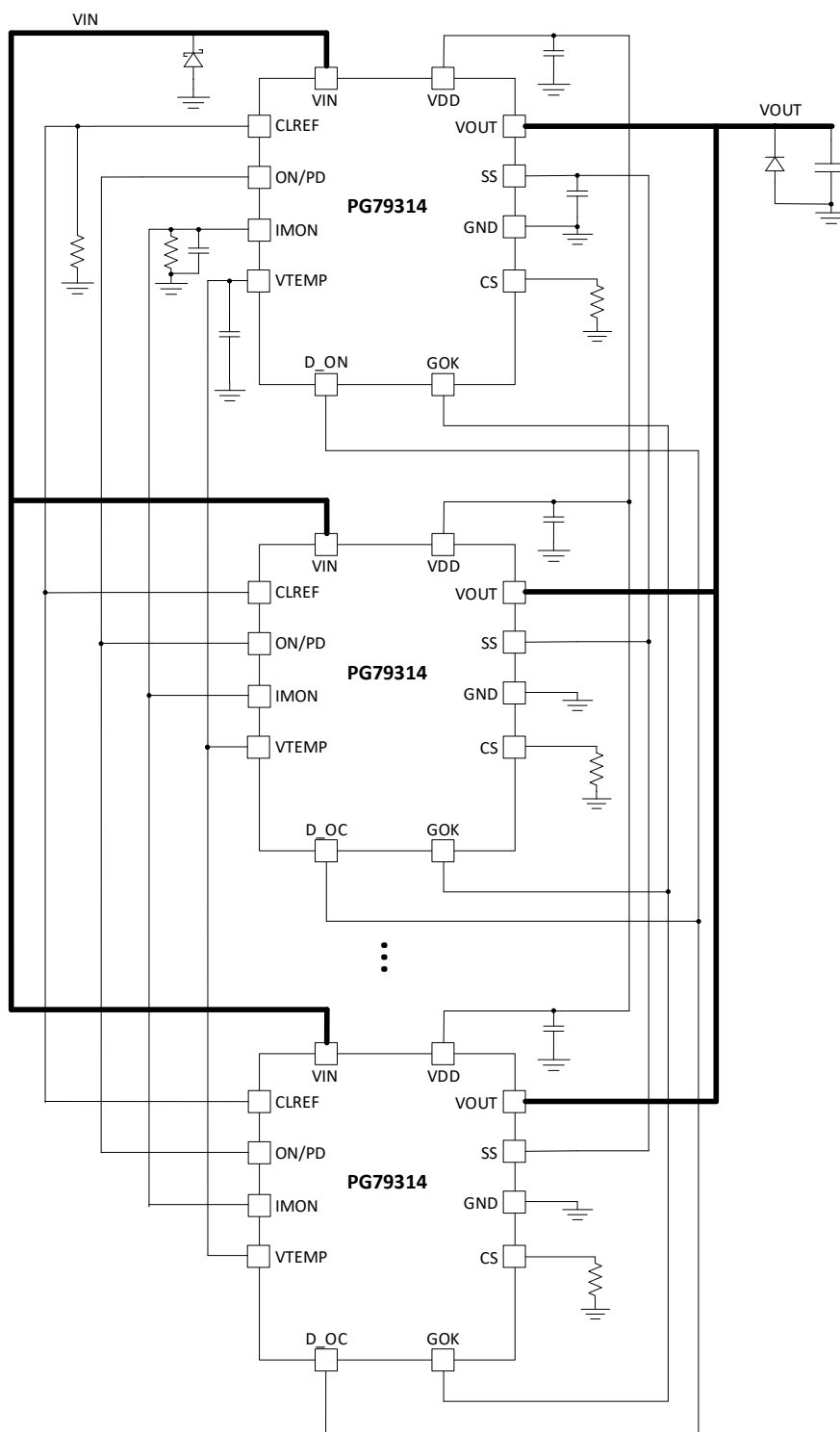
The device is available in LGA-32, 5x5 mm package.

PART NUMBER	PACKAGE	BODY SIZE
PG79314	LGA-32	5x5 mm
PG79312	LGA-32	5x5 mm

Typical Application Circuit



Typical Application



Parallel Operation