

PG79313 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
- Adjustable short circuit current limit
- Fast trip short-circuit protection
- Fault indication and fault type output
- Selectable Latch-off mode or hiccup mode for input OV, over current, short circuit, over-temperature protections.
- Input to output short circuit detection
- 5x5mm LGA package
- RoHS compliant and Green

Applications

- Disk Drives
- PCI and PCIe cards
- Servers
- Networking

- Hotswap

Description

The PG79313 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 set with a resistor between OCREF and ground. Also, the device has integrated current sense and provides 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.

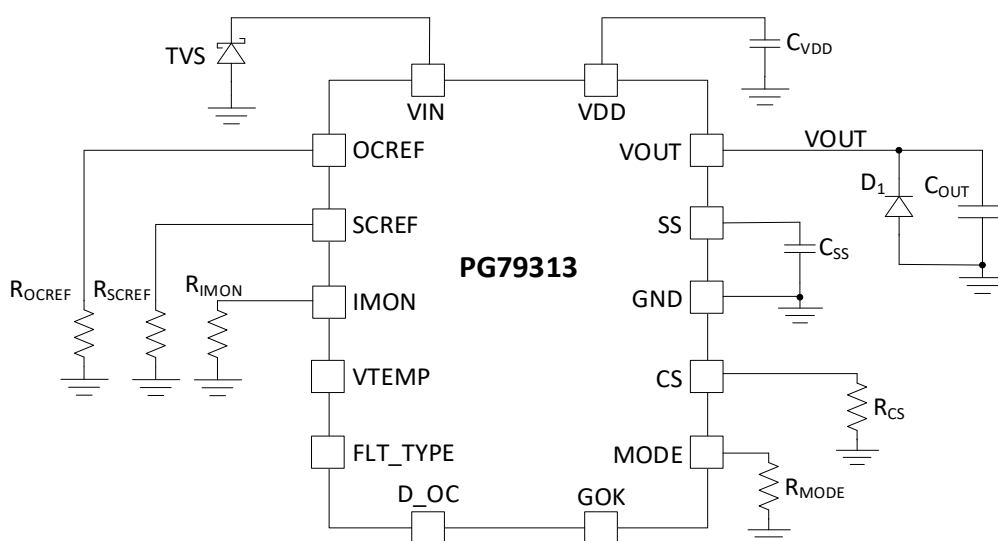
In addition, the device provides fault indication (GOK), fault type (FLT_TYPE) signal to the system for monitoring and control.

PG79313 can be connected in parallel for higher current applications.

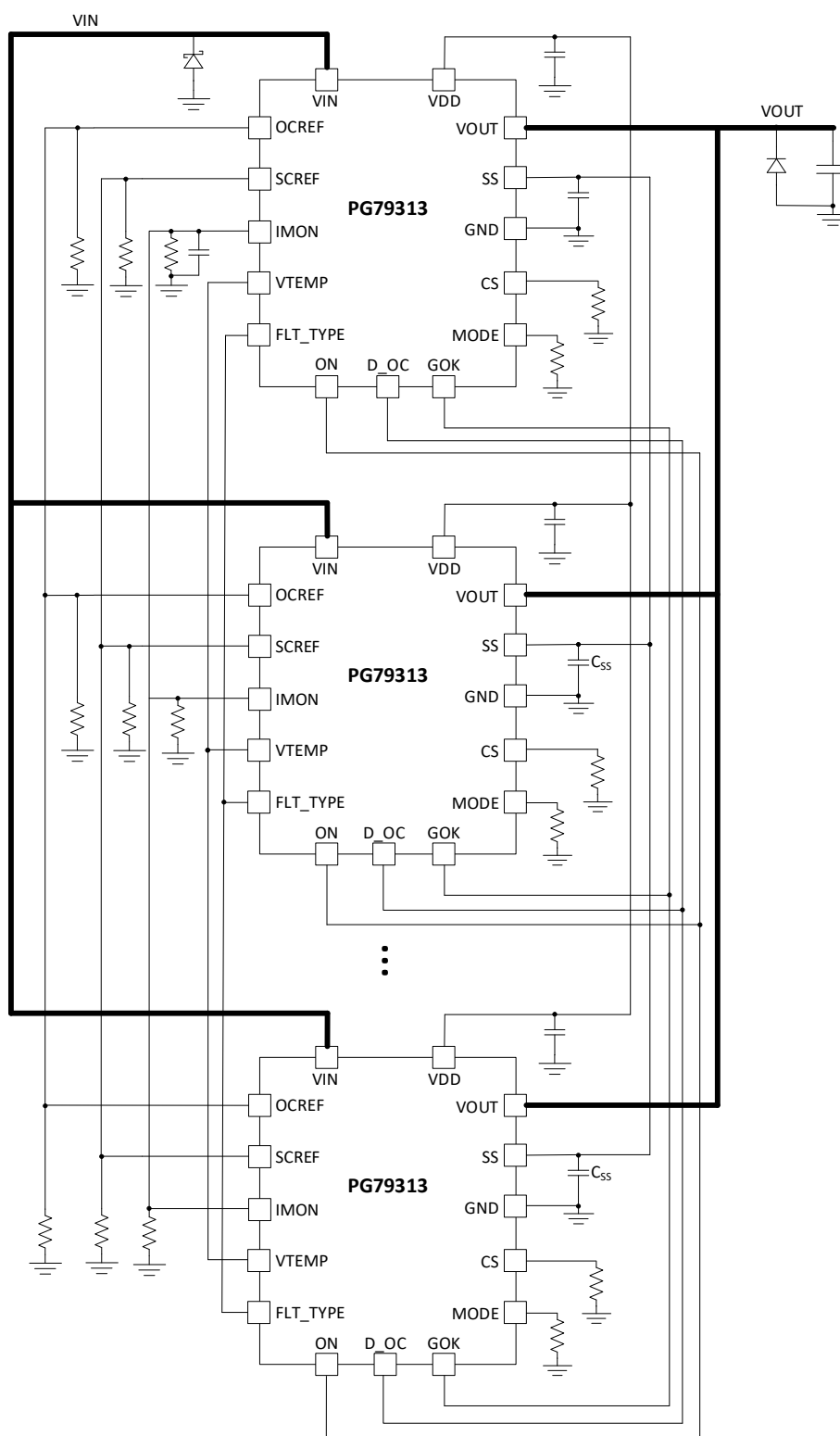
The device is available in LGA-32, 5x5 mm package.

PART NUMBER	PACKAGE	BODY SIZE
PG79313	LGA-32	5x5 mm

Typical Application Circuit



Typical Application



Parallel Operation