

PG79384 4V to 16V, 50A eFuse with Hot Swap Protection and PMBus

Features

- Wide input voltage range: 4V to 16V
- Integrated 1.1mΩ Pass MOSFET
- Adjustable current limit
- PG detection and output
- Accurate current monitor
- Fast trip short-circuit protection: 200ns typical
- Adjustable output soft start time
- Configurable input over-voltage protection
- Selectable Auto-retry or latch-off for protection
- Telemetry of VIN, VOUT, IOUT and temperature
- Integrated over-temperature protection
- Input to output short circuit detection
- 4x5mm QFN package
- RoHS compliant and Green

Description

The PG79384 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 a resistor between ISET and ground. Additionally, the device offers a current monitor signal.

The device has input over-voltage protection feature to protect output load in the event of input over voltage fault.

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 has PMBus interface to monitor VIN, VOUT, IOUT and temperature of the device as well as the fault status.

The device is available in QFN-24, 4x5 mm package.

Applications

- Server and AUX supplies
- PCI and PCIe cards
- Router and switch optical module
- Digital TV

PART NUMBER	PACKAGE	BODY SIZE
PG79384	QFN-24	4x5 mm

Typical Application Circuit

