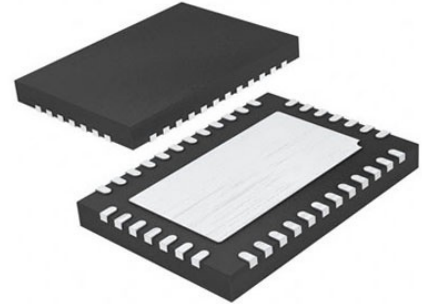


20A Guaranteed SOA Hot Swap Controller

Manufacturers	Analog Devices, Inc
Package/Case	38-Lead Plastic QFN (5mm × 9mm)
Product Type	Power Supplies
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4234HWHH#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4234 is an integrated solution for Hot Swap™ applications that allows a board to be safely inserted and removed from a live backplane. The part integrates a Hot Swap controller, power MOSFET and current sense resistor in a single package for small form factor applications. The MOSFET Safe Operating Area is production tested and guaranteed for the stresses in Hot Swap applications.

The LTC4234 provides separate inrush current control and an 11% accurate 22.5A current limit with output dependent foldback. The current limit threshold can be adjusted dynamically using the ISET pin. Additional features include a current monitor output that amplifies the sense resistor voltage for ground referenced current sensing and a MOSFET temperature monitor output. Thermal limit, overvoltage, undervoltage and power good monitoring are also provided. For a 10A compatible version, see LTC4233.

Features

Allows Safe Board Insertion into Live Backplane

Small Footprint

4m Ω MOSFET Including RSENSE

Safe Operating Area Guaranteed at 81W, 30ms

Wide Operating Voltage Range: 2.9V to 15V

Adjustable, 11% Accurate Current Limit

Current and Temperature Monitor Outputs

Overtemperature Protection

Adjustable Current Limit Timer Before Fault

Power Good and Fault Outputs

Adjustable Inrush Current Control

2.5% Accurate Undervoltage and Overvoltage Protection

Pin Compatible with LTC4233

Available in a 38-Pin (5mm \times 9mm) QFN Package

Application

High Availability Servers

Solid State Drives

Industrial

240W, 12V Systems

Related Products



[LTC1966CMS8](#)

Analog Devices, Inc
MSOP-8



[LT1054ISW](#)

Analog Devices, Inc
SOP-16



[LT1931ES5](#)

Analog Devices, Inc
SOT-23



[LTC1446CS8](#)

Analog Devices, Inc
SOP-8



[LTC2600IGN](#)

Analog Devices, Inc
SSOP-16



[LTC2208CUP](#)

Analog Devices, Inc
QFN64



[LTC1606IG](#)

Analog Devices, Inc
SSOP-28



[LT3463EDD](#)

Analog Devices, Inc
QFN10