

Overvoltage, Undervoltage and Reverse Supply Protection Controller

Manufacturers	Analog Devices, Inc
Package/Case	8-Lead DFN (3mm x 2mm w/ EP)
Product Type	Power Supplies
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4365HDDB-1#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4365 protects applications where power supply input voltages may be too high, too low or even negative. It does this by controlling the gate voltages of a pair of external N-channel MOSFETs to ensure that the output stays within a safe operating range. The LTC4365 can withstand voltages between -40V and 60V and has an operating range of 2.5V to 34V, while consuming only 125µA in normal operation.

Two comparator inputs allow configuration of the overvoltage (OV) and undervoltage (UV) set points using an external resistive divider. A shutdown pin provides external control for enabling and disabling the MOSFETs as well as placing the device in a low current shutdown state. A fault output provides status of the gate pin pulling low. A fault is indicated when the part is in shutdown or the input voltage is outside the UV and OV set points.

The LTC4365 has a 36ms turn-on delay that debounces live connections and blocks 50Hz to 60Hz AC power. For fast recovery after faults, the LTC4365-1 has a reduced 1ms turn-on delay.

Features

Wide Operating Voltage Range: 2.5V to 34V

Overvoltage Protection to 60V

Reverse Supply Protection to -40V

LTC4365: Blocks 50Hz and 60Hz AC Power

LTC4365-1: Fast (1ms) Recovery from Fault

No Input Capacitor or TVS Required for Most Applications

Adjustable Undervoltage and Overvoltage Protection Range

Charge Pump Enhances External N-Channel MOSFET

Low Operating Current: 125 μ A

Low Shutdown Current: 10 μ A

Compact 8-Lead, 3mm \times 2mm DFN and TSOT-23 (ThinSOT™) Packages

AEC-Q100 Qualified for Automotive Applications

Application

Portable Instrumentation

Industrial Automation

Laptops

Automotive Surge Protection

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](#)

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QFN64



[LTC1606IG](#)

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SSOP-28



[LT3463EDD](#)

Analog Devices, Inc
QFN10