

Surge Suppressors UV, OV and Reverse Supply Protection Controller with 36ms Fault Recovery

Manufacturers	Analog Devices, Inc
Package/Case	SOT23-8
Product Type	Power Management - Specialized
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4365ITS8#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 125 μ A 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

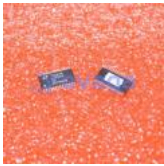
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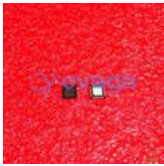
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Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



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