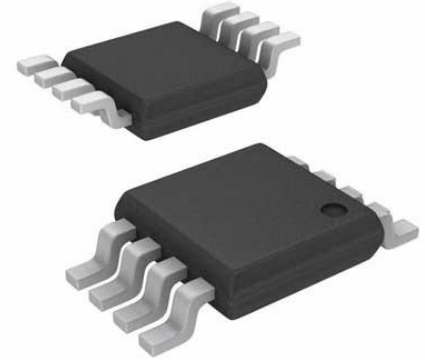


50mA, 3V to 80V Low Dropout Micropower Regulator; Package: MSOP; No of Pins: 8;
Temperature Range: -40°C to +125°C

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



Images are for reference only

Please submit RFQ for LT3010EMS8E-5#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3010 is a high voltage, micropower low dropout linear regulator. The device is capable of supplying 50mA output current with a dropout voltage of 300mV. Designed for use in battery-powered or high voltage systems, the low quiescent current (30µA operating and 1µA in shutdown) makes the LT3010 an ideal choice. Quiescent current is also well controlled in dropout.

Other features of the LT3010 include the ability to operate with very small output capacitors. The regulators are stable with only 1µF on the output while most older devices require between 10µF and 100µF for stability. Small ceramic capacitors can be used without the necessary addition of ESR as is common with other regulators. Internal protection circuitry includes reverse-battery protection, current limiting, thermal limiting and reverse current protection.

The device is available in a fixed output voltage of 5V and as an adjustable device with a 1.275V reference voltage. The LT3010 regulator is available in the 8-lead MSOP package with an exposed pad for enhanced thermal handling capability.

Features

Wide Input Voltage Range: 3V to 80V

Low Quiescent Current: 30 μ A

Low Dropout Voltage: 300mV

Output Current: 50mA

Thermally Enhanced 8-Lead MSOP Package

No Protection Diodes Needed

Fixed Output Voltage: 5V (LT3010-5)

Adjustable Output from 1.275V to 60V (LT3010)

1 μ A Quiescent Current in Shutdown

Stable with 1 μ F Output Capacitor

Stable with Aluminum, Tantalum or Ceramic Capacitors

Reverse-Battery Protection

No Reverse Current Flow from Output

Thermal Limiting

Application

Low Current High Voltage Regulators

Regulator for Battery-Powered Systems

Telecom Applications

Automotive Applications

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



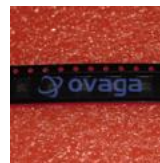
[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EX#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN