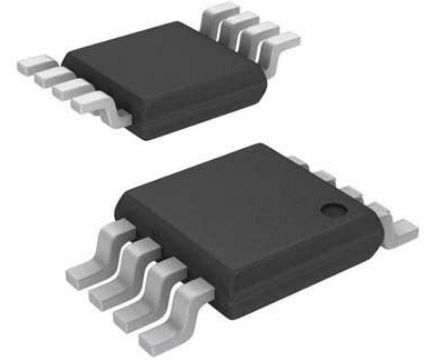


50mA, 3V to 80V Low Dropout Micropower Regulator; Package: MSOP; No of Pins: 8;  
Temperature Range: -40° to +125°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3010HMS8E#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 $\mu$ 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 $\mu$ A Quiescent Current in Shutdown

Stable with 1 $\mu$ 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