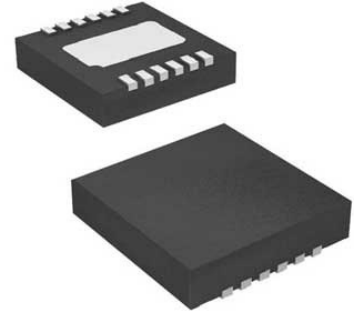


250mA, 4V to 80V Low Dropout Micropower Linear Regulator; Package: DFN; No of Pins: 12; Temperature Range: -40°C to +125°C

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DFN-12
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3012EDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT3012 is a high voltage, micropower low dropout linear regulator. The device is capable of supplying 250mA of output current with a dropout voltage of 400mV. Designed for use in battery-powered or high voltage systems, the low quiescent current (40µA operating and 1µA in shutdown) makes the LT3012 an ideal choice. Quiescent current is also well controlled in dropout.

Other features of the LT3012 include the ability to operate with very small output capacitors. The regulators are stable with only 3.3µF on the output while most older devices require between 10µF and 100µF for stability. Small ceramic capacitors can be used without any need for series resistance (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 with an adjustable output with a 1.24V reference voltage. The LT3012 regulator is available in the 16-lead TSSOP and 12 pin low profile (0.75mm) (4mm × 3mm) DFN packages with an exposed pad for enhanced thermal handling capability.

Shutdown PinLT3012YesLT3012B No

## Features

Wide Input Voltage Range: 4V to 80V

Low Quiescent Current: 40 $\mu$ A

Low Dropout Voltage: 400mV

Output Current: 250mA

No Protection Diodes Needed

Adjustable Output from 1.24V to 60V

1 $\mu$ A Quiescent Current in Shutdown

Stable with 3.3 $\mu$ F Output Capacitor

Stable with Aluminum, Tantalum or Ceramic Capacitors

Reverse-Battery Protection

No Reverse Current Flow from Output to Input

Thermal Limiting

Thermally Enhanced 16-Lead TSSOP and 12-Pin (4mm  $\times$  3mm) DFN Packages

## 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



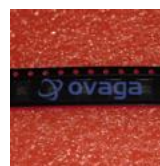
### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN