

Dual 750mA/250mA Low Dropout, Low Noise, Micropower Linear Regulator

Manufacturers	Analog Devices, Inc
Package/Case	20-Lead TSSOP w/ EP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT3030EFE#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3030 is a dual, micropower, low noise, low dropout linear regulator. The device operates with either common or independent input supplies for each channel, over a 1.7V to 20V input voltage range. Output 1/Output 2 supply 750mA/250mA respectively with a typical dropout voltage of 300mV. With an external 10nF bypass capacitor, output noise is only 20 μ VRMS over a 10Hz to 100kHz bandwidth. Designed for use in battery-powered systems, the low 120 μ A/75 μ A quiescent current makes it an ideal choice. In shutdown, quiescent current drops to less than 1 μ A. Shutdown control is independent for each channel and its precision logic threshold allows for voltage lockout functionality. The LT3030 includes a PWRGD flag for each channel to indicate output regulation.

The LT3030 optimizes stability and transient response with low ESR ceramic output capacitors, requiring a minimum of only 10 μ F/3.3 μ F.

Internal circuitry provides reverse-battery protection, reverse-current protection, current limiting with foldback and thermal shutdown with hysteresis. The adjustable output voltage device has a 1.220V reference voltage. The LT3030 is offered in the thermally enhanced 20-lead TSSOP and 28-lead, low profile (4mm \times 5mm \times 0.75mm) QFN packages.

Features

Output Current: 750mA/250mA

Low Dropout Voltage: 300mV

Low Noise: 20 μ V_{RMS} (10Hz to 100kHz)

Low Quiescent Current: 120 μ A/75 μ A

Wide Input Voltage Range: 1.7V to 20V

Adjustable Output: 1.220V Reference Voltage

Shutdown Quiescent Current: <1 μ A

Stable with 10 μ F/3.3 μ F Minimum Output Capacitor

Stable with Ceramic, Tantalum or Aluminum Electrolytic Capacitors

Precision Threshold for Shutdown Logic or UVLO Function

PWRGD Flag for each Output

Reverse Battery and Reverse Output-to-Input Protection

Current Limit with Foldback and Thermal Shutdown

Thermally Enhanced 20-Lead TSSOP and 28-Lead (4mm \times 5mm) QFN Packages

Application

General Purpose Linear Regulator

Battery-Powered Systems

Microprocessor Core/Logic Supplies

Post Regulator for Switching Supplies

Tracking/Sequencing Power Supplies

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



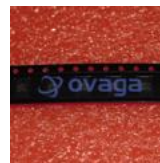
[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EX#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFDPBF](#)

Analog Devices, Inc
28-WFQFN