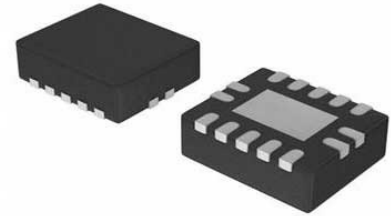


LDO Regulator Neg/Pos $\pm 1.22V$ to $\pm 20V$ $\pm 0.15A$ Automotive 14-Pin DFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	QFN14
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3032IDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3032 is a dual, low noise, positive and negative low dropout voltage linear regulator. Each regulator delivers up to 150mA with a typical 300mV dropout voltage. Each regulator's quiescent current is low (30 μ A operating and <3 μ A in shutdown) and well-controlled in dropout, making it an excellent choice for battery-powered circuits.

Another key feature of the LT3032 is low output noise. Adding an external 10nF bypass capacitor to each regulator reduces output noise to 20 μ V_{RMS}/30 μ V_{RMS} over a 10Hz to 100kHz bandwidth. The LT3032 is stable with minimum output capacitors of 2.2 μ F. The regulators do not require the addition of ESR as is common with other regulators.

The regulators are offered as adjustable output devices with an output voltage down to the $\pm 1.22V$ reference voltage or in fixed voltages of $\pm 3.3V$, $\pm 5V$, $\pm 12V$ and $\pm 15V$. Internal protection circuitry includes reverse-output protection, current limiting and thermal limiting.

The LT3032 is available in a unique low profile 14-lead 4mm \times 3mm \times 0.75mm DFN package with exposed backside pads for each regulator, allowing optimum thermal performance.

Features

Low Noise: 20 μ VRMS (Positive) and 30 μ VRMS (Negative)

Low Quiescent Current: 30 μ A/Channel

Wide Input Voltage Range: \pm 2.3V to \pm 20V

Output Current: \pm 150mA

Low Shutdown Current: <3 μ A Total (Typical)

Low Dropout Voltage: 300mV/Channel

Fixed Output Voltages: \pm 3.3V, \pm 5V, \pm 12V, \pm 15V

Adjustable Outputs from \pm 1.22V to \pm 20V

No Protection Diodes Needed

Stable with 2.2 μ F Output Capacitors

Stable with Ceramic, Tantalum or Aluminum Capacitors

Starts into Reverse Output Voltage

Current Limit and Thermal Limit

Low Profile 14-Lead 4mm \times 3mm \times 0.75mm DFN Package

Application

Battery-Powered Instruments

Bipolar Power Supplies

Low Noise 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



[LTM8045EV#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN