

IC REG LDO ADJ .15A 14DFN

|               |                                     |
|---------------|-------------------------------------|
| Manufacturers | <a href="#">Analog Devices, Inc</a> |
| Package/Case  | DFN-14P                             |
| Product Type  | Power Management ICs                |
| RoHS          | Pb-free Halide free                 |
| Lifecycle     |                                     |



Images are for reference only

Please submit RFQ for LT3032IDE#TRPBF 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 $\mu$ A operating and <3 $\mu$ 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 $\mu$ V<sub>RMS</sub>/30 $\mu$ V<sub>RMS</sub> over a 10Hz to 100kHz bandwidth. The LT3032 is stable with minimum output capacitors of 2.2 $\mu$ 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  $\pm 1.22$ V reference voltage or in fixed voltages of  $\pm 3.3$ V,  $\pm 5$ V,  $\pm 12$ V and  $\pm 15$ V. 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 $\mu$ VRMS (Positive) and 30 $\mu$ VRMS (Negative)

Low Quiescent Current: 30 $\mu$ A/Channel

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

Output Current:  $\pm$ 150mA

Low Shutdown Current: <3 $\mu$ 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 $\mu$ 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



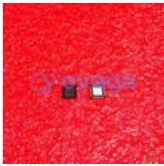
### [LT3763EFE](#)

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



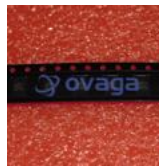
### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



### [LT4295IUFD#PBF](#)

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28-WFQFN