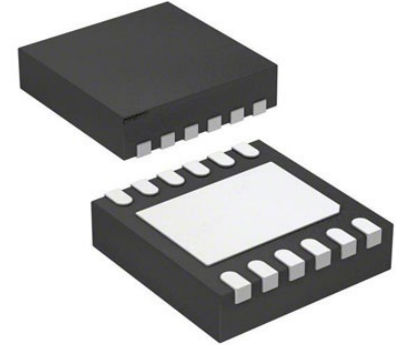


200mA Single Resistor Low Dropout Linear Regulator; Package: 8-DFN; Temperature Range: -40°C to 125°C

Manufacturers	Analog Devices, Inc
Package/Case	8-WDFN
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3082EDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3082 is a 200mA low dropout linear regulator that can be paralleled to increase output current or spread heat in surface mounted boards. Architected as a precision current source and voltage follower, this regulator benefits many applications requiring high current, adjustability to zero and no heat sink. The LT3082 withstands reverse input voltages and reverse output-to-input voltages without reverse-current flow.

A key feature of the LT3082 is the capability to supply a wide output voltage range. A precision “0” TC 10μA reference current source drives a single resistor to program the output voltage to any level between zero and 38.5V. The LT3082 is stable with only 2.2μF of capacitance on the output; the IC uses small ceramic capacitors that do not require additional ESR as is common with other regulators.

Internal protection circuitry includes reverse-battery and reverse-current protection, current limiting and thermal limiting. The LT3082 is offered in the thermally enhanced 8-lead TSOT-23, 3-lead SOT-223 and 8-lead 3mm × 3mm DFN packages.

Features

Outputs May Be Paralleled for Higher Output Current or Heat Spreading

Maximum Output Current: 200mA

Wide Input Voltage Range: 1.2V to 40V

Output Adjustable to 0V

Stable with Minimum 2.2 μ F Ceramic Capacitors

Single Resistor Sets Output Voltage

Initial Set Pin Current Accuracy: 1%

Low Output Noise: 33 μ VRMS (10Hz to 100kHz)

Reverse-Battery Protection

Reverse-Current Protection

Current Limit and Thermal Shutdown Protection

Available in 8-Lead SOT-23, 3-Lead SOT-223 and 8-Lead 3mm \times 3mm DFN Packages

Application

All-Surface Mount Power Supply

Post Regulator for Switching Supplies

Low Parts Count Variable Voltage Supply

Low Output Voltage Supply

Battery Powered Regulator

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN