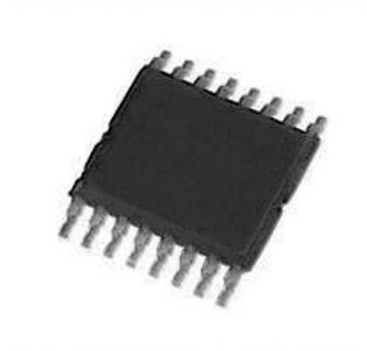


LDO Regulator Pos 0V to 23V 3A Automotive 16-Pin TSSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	16TSSOP
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3083EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3083 is a 3A low dropout linear regulator that can be paralleled to increase output current or spread heat on surface mounted boards. Architected as a precision current source and voltage follower, this new regulator finds use in many applications requiring high current, adjustability to zero, and no heat sink. The device also brings out the collector of the pass transistor to allow low dropout operation—down to 310mV—when used with multiple supplies.

A key feature of the LT3083 is the capability to supply a wide output voltage range. By using a reference current through a single resistor, the output voltage is programmed to any level between zero and 23V (DD-PAK and TO-220 packages). The LT3083 is stable with 10 μ F of capacitance on the output, and the IC is stable with small ceramic capacitors that do not require additional ESR as is common with other regulators.

Internal protection circuitry includes current limiting and thermal limiting. The LT3083 is offered in the 16-lead TSSOP (with an exposed pad for better thermal characteristics), 12-lead 4mm \times 4mm DFN (also with an exposed pad), 5-lead TO-220, and 5-lead surface mount DD-PAK packages.

Features

Outputs May be Paralleled for Higher Current and Heat Spreading

Output Current: 3A

Single Resistor Programs Output Voltage

50 μ A Set Pin Current: 1% Initial Accuracy

Output Adjustable to 0V

Low Output Noise: 40 μ VRMS (10Hz to 100kHz)

Wide Input Voltage Range: 1.2V to 23V (DD-Pak and TO-220 Packages)

Low Dropout Voltage: 310mV

Minimum Load Current: 1mA

Stable with Minimum 10 μ F Ceramic Capacitor

Current Limit with Foldback and Overtemperature Protection

Available in 16-Lead TSSOP, 12-Lead 4mm \times 4mm DFN, 5-Lead TO-220 and 5-Lead Surface Mount DD-PAK Packages

Application

High Current All Surface Mount Supply

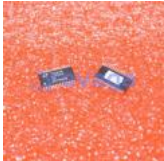
High Efficiency Linear Regulator

Post Regulator for Switching Supplies

Low Parts Count Variable Voltage Supply

Low Output Voltage Power Supplies

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