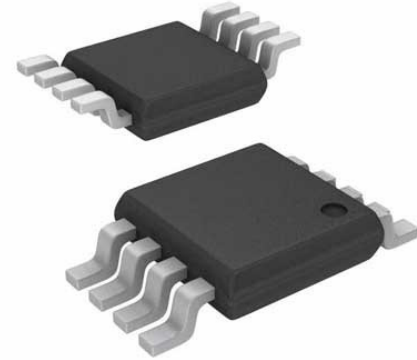


LDO Regulator Pos 0V to 36V 1.1A

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3080EMS8E-1#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT3080-1 is a 1.1A low dropout linear regulator that incorporates an internal ballast resistor to allow direct paralleling of devices without the need for PC board trace resistors. The internal ballast resistor allows multiple devices to be paralleled directly on a surface mount board for higher output current and power dissipation while keeping board layout simple and easy. The device brings out the collector of the pass transistor to allow low dropout operation—down to 350mV—when used with multiple input supplies.

The LT3080-1 is capable of supplying a wide output voltage range. A reference current through a single resistor programs the output voltage to any level between zero and 36V. The LT3080-1 is stable with 2.2 $\mu$ F of ceramic capacitance on the output, not requiring additional ESR as is common with other regulators.

Internal protection includes current limiting and thermal limiting. The LT3080-1 regulator is offered in the 8-lead MSOP (with an Exposed Pad for better thermal characteristics) and 3mm  $\times$  3mm DFN packages.

FeaturesLT3080-LT3080-1Can parallel without additional external resistance

## Features

Internal Ballast Resistor Permits Direct Connection to Power Plane for Higher Current and Heat Spreading

Output Current: 1.1A

Single Resistor Programs Output Voltage

1% Initial Accuracy of SET Pin Current

Output Adjustable to 0V

Low Output Noise: 40 $\mu$ VRMS (10Hz to 100kHz)

Wide Input Voltage Range: 1.2V to 36V

Low Dropout Voltage: 300mV

Minimum Load Current: 0.5mA

Stable with 2.2 $\mu$ F Minimum Ceramic Output Capacitor

Current Limit with Foldback and Overtemperature Protected

Available in 8-Lead MSOP and 3mm  $\times$  3mm DFN

## 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



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



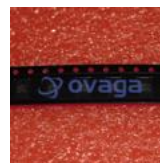
### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LTM8045EX#PBF](#)

Analog Devices, Inc  
BGA40



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN