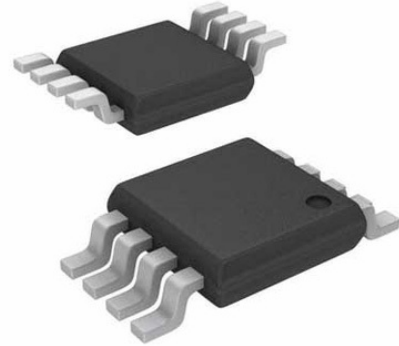


LDO Regulator, 100mA Adjustable, 0.2 9.5 V 8-Pin, MSOP

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3020EMS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3020 is a very low dropout voltage (VLDO™) linear regulator that operates from input supplies down to 0.9V. This device supplies 100mA of output current with a typical dropout voltage of 150mV. The LT3020 is ideal for low input voltage to low output voltage applications, providing comparable electrical efficiency to that of a switching regulator.

The LT3020 regulator optimizes stability and transient response with low ESR, ceramic output capacitors as small as 2.2µF. Other LT3020 features include 0% typical line regulation and 0.2% typical load regulation. In shutdown, quiescent current drops to 3µA.

Internal protection circuitry includes reverse-battery protection, current limiting, thermal limiting with hysteresis, and reverse-current protection. The LT3020 is available as an adjustable output device with an output range down to the 200mV reference. Three fixed output voltages, 1.2V, 1.5V and 1.8V, are also available.

The LT3020 regulator is available in the low profile (0.75mm) 8-lead (3mm × 3mm) DFN package with exposed pad and the 8-lead MSOP package.

Features

VIN Range: 0.9V to 10V

Minimum Input Voltage: 0.9V

Dropout Voltage: 150mV Typical

Output Current: 100mA

Adjustable Output = 200mV)

Fixed Output Voltages: 1.2V, 1.5V, 1.8V

Stable with Low ESR, Ceramic Output Capacitors (2.2 μ F Minimum)

0.2% Load Regulation from 1mA to 100mA

Quiescent Current: 120 μ A (Typ)

3 μ A Typical Quiescent Current in Shutdown

Current Limit Protection

Reverse-Battery Protection

No Reverse Current

Thermal Limiting with Hysteresis

8-Lead DFN (3mm \times 3mm) and MSOP Packages

Application

Low Current Regulators

Battery-Powered Systems

Cellular Phones

Pagers

Wireless Modems

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN