

LDO Regulator Neg -3.8V to -19.3V 0.5A Automotive 8-Pin SOIC N Tube

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1175IS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT1175 is a negative micropower low dropout regulator. It features 45 μ A quiescent current, dropping to 10 μ A in shutdown. A new reference amplifier topology gives precision DC characteristics along with the ability to maintain good loop stability with an extremely wide range of output capacitors. Very low dropout voltage and high efficiency are obtained with a unique power transistor anti-saturation design. Adjustable and fixed 5V versions are available.

Several new features make the LT1175 very user-friendly. The SHDN pin can interface directly to either positive or negative logic levels. Current limit is user-selectable at 200mA, 400mA, 600mA and 800mA. The output can be forced to reverse voltage without damage or latch-up. Unlike some earlier designs, the increase in quiescent current during a dropout condition is actively limited.

The LT1175 has complete blowout protection with current limiting, power limiting and thermal shutdown. Special attention was given to the problem of high temperature operation with micropower operating currents, preventing output voltage rise under no-load conditions. The LT1175 is available in 8-pin PDIP and SO packages, 3-lead SOT-223 as well as 5-pin surface mount DD and through-hole TO-220 packages. The 8-pin SO package is specially constructed for low thermal resistance.

Features

Operating Current: 45 μ A

Adjustable Current Limit

Low Voltage Linear Dropout Characteristics

Stable with Wide Range of Output Capacitors

Shutdown Current: 10 μ A

Positive or Negative Shutdown Logic

Fixed 5V and Adjustable Versions

Tolerates Reverse Output Voltage

Available in 8-pin PDIP and SO Packages, 3-lead SOT-223, 5-Pin Surface Mount DD and Through-Hole TO-220 Packages

Application

Analog Systems

Modems

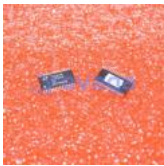
Instrumentation

A/D and D/A
Converters

Interface Drivers

Battery-Powered
Systems

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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