

LDO Regulator Neg -1.22V to -29.3V 1.5A Automotive 8-Pin DFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	DFN8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3015IDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3015 series are low noise, low dropout, negative linear regulators with fast transient response. The devices supply up to 1.5A of output current at a typical dropout voltage of 310mV. Operating quiescent current is typically 1.1mA and drops to <1µA in shutdown. Quiescent current is also well controlled in dropout. In addition to fast transient response, the LT3015 series exhibit very low output noise, making them ideal for noise sensitive applications.

The LT3015 regulators are stable with a minimum 10µF output capacitor. Moreover, the regulator can use small ceramic capacitors without the necessary addition of ESR as is common with other regulators. Internal protection circuitry includes reverse output protection, precision current limit with foldback and thermal limit with hysteresis.

The LT3015 regulators are available in fixed output voltages of -2.5V, -3V, -3.3V, -5V, -12V and -15V and as an adjustable device with a -1.22V reference voltage. Packages include the 5-lead TO-220 and DD-Pak, a thermally enhanced 12-lead MSOP and the low profile (0.75 mm) 8-lead 3mm × 3mm DFN.

Features

Output Current: 1.5A

Dropout Voltage: 310mV

Precision Current Limit with Foldback

Low Output Noise: 60 μ VRMS (10Hz to 100kHz)

Low Quiescent Current: 1.1mA

Precision Positive or Negative Shutdown Logic

Fast Transient Response

Wide Input Voltage Range: -1.8V to -30V

Adjustable Output Voltage Range: -1.22V to -29.3V

Fixed Output Voltages: -2.5V, -3V, -3.3V, -5V, -12V, -15V

Controlled Quiescent Current in Dropout

Stable with 10 μ F Output Capacitor

Stable with Ceramic, Tantalum or Aluminum Capacitors

Thermal Limit with Hysteresis

Reverse Output Protection

5-Lead TO-220 and DD-Pak, Thermally Enhanced 12-Lead MSOP and 8-Lead 3mm \times 3mm \times 0.75mm DFN Packages

Application

Post-Regulator for Switching Supplies

Negative Logic Supplies

Low Noise Instrumentation

Industrial Supplies

Negative Complement to the LT1963A

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