

LT3015EQ#PBF

Data Sheet

LT3015EQ#PBF Negative Voltage Regulator, 1.5A, Adjustable, -1.22 -29.3 V 5-Pin, D2PAK

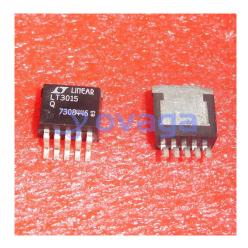
Manufacturers Analog Devices, Inc

Package/Case SOT263

Product Type Power Management ICs

RoHS Pb-free Halide free

Lifecycle



Images are for reference only

Please submit RFQ for LT3015EQ#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

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 $<1\mu A$ 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 $10\mu F$ 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 \times 3mm DFN.

Features

Output Current: 1.5A

Dropout Voltage: 310mV

Precision Current Limit with Foldback

Low Output Noise: 60µVRMS (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 10µF 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

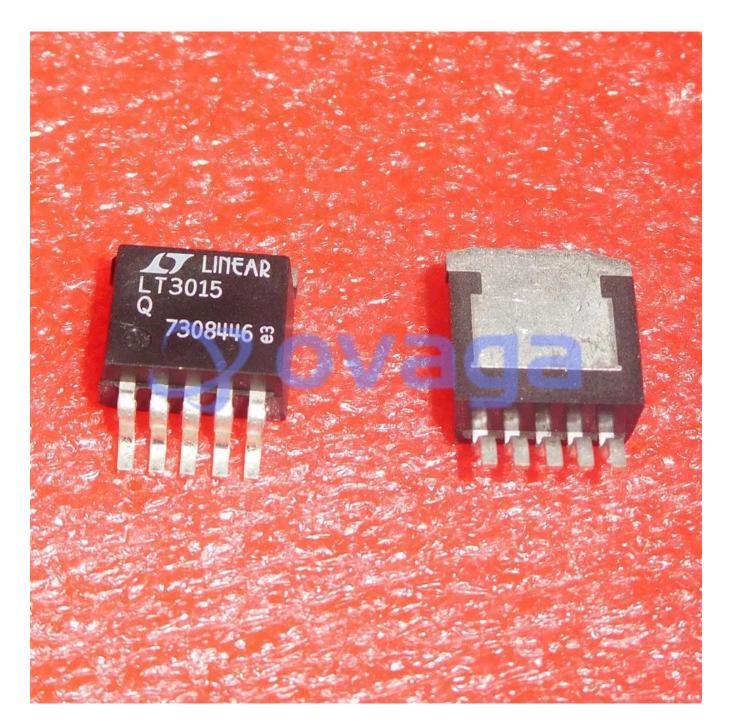
Negative Logic Supplies

Low Noise Instrumentation

Industrial Supplies

Negative Complement to the

LT1963A



Related Products



LT3763EFE
Analog Devices, Inc
TSSOP28



LTC4417IUF

Analog Devices, Inc

QFN-24



LT1038CK
Analog Devices, Inc
TO-3



LTC3440EMS
Analog Devices, Inc
MSOP10



LTC1966CMS8#PBF
Analog Devices, Inc
MSOP-8P



Analog Devices, Inc 10MSOP

LTC2990IMS#PBF



LTM8045EY#PBF
Analog Devices, Inc
BGA40



LT4295IUFD#PBF
Analog Devices, Inc
28-WFQFN