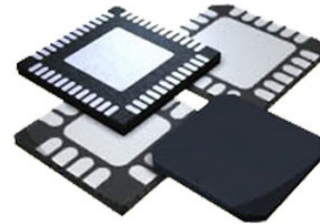


LDO Regulator Pos 0.4V to 3.6V 0.5A 6-Pin DFN EP T/R

Manufacturers	Analog Devices, Inc
Package/Case	QFN-6
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3025EDC-1#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3025-X is a micropower, VLDO™ (very low dropout) linear regulator which operates from input voltages as low as 0.9V. The device is capable of supplying 500mA of output current with a typical dropout voltage of only 85mV. A BIAS supply is required to run the internal reference and LDO circuitry while output current comes directly from the IN supply for high efficiency regulation. The LTC3025-1 features an adjustable output with a low 0.4V reference while the LTC3025-2, LTC3025-3, and LTC3025-4 have fixed 1.2V, 1.5V and 1.8V output voltages respectively.

The LTC3025-X's low quiescent current makes it an ideal choice for use in battery-powered systems. For 3-cell NiMH and single cell Li-Ion applications, the BIAS voltage can be supplied directly from the battery while the input can come from a high efficiency buck regulator, providing a high efficiency, low noise output.

Other features include high output voltage accuracy, excellent transient response, stability with ultralow ESR ceramic capacitors as small as 1µF, short-circuit and thermal overload protection and output current limiting. The LTC3025-X is available in a tiny, low profile (0.75mm) 6-lead DFN (2mm × 2mm) package.

APPLICATIONS

Features

Wide Input Voltage Range: 0.9V to 5.5V

Stable with Ceramic Capacitors

Very Low Dropout: 85mV at 500mA

Adjustable Output Range: 0.4V to 3.6V (LTC3025-1)

Fixed Output: 1.2V(LTC3025-2), 1.5V(LTC3025-3), 1.8V(LTC3025-4)

Low Noise: 80 μ V

RMS

BIAS Voltage Range: 2.5V to 5.5V

Fast Transient Recovery

Shutdown Disconnects Load from V

IN

BIAS

Low Operating Current:>

Low Shutdown Current:>

Output Current Limit

Thermal Overload Protection

Available in 6-Lead (2mm \times 2mm) DFN Package

AEC-Q100 Qualified for Automotive Applications

Application

Low Power Handheld Devices

Low Voltage Logic Supplies

DSP Power Supplies

Cellular Phones

Portable Electronic Equipment

Handheld Medical Instruments

Post Regulator for Switching Supply Noise Rejection

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](#)

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28-WFQFN