

LDO Regulator, 500mA Adjustable, 0.4 3.6 V,  $\pm 2\%$  6-Pin, DFN

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DFN-6
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

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

[RFQ](#)

## General Description

The LTC3025 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 300mA of output current with a typical dropout voltage of only 45mV. 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 low 0.4V internal reference voltage allows the LTC3025 output to be programmed to much lower voltages than available in common LDOs (range of 0.4V to 3.6V). The output voltage is programmed via two ultrasmall SMD resistors.

The LTC3025'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 1 $\mu$ F, short-circuit and thermal overload protection and output current limiting. The LTC3025 is available in a tiny, low profile (0.75mm) 6-lead DFN (2mm  $\times$  2mm) package.

Output Current Output Voltage LTC3025-300mA Adj (0.4V to 3.6V) LTC3025-1500mA Adj (0.4V to 3.6V) LTC3025-2500mA 1.2V Fixed LTC3025-3500mA 1.5V Fixed LTC3025-4500mA 1.8V Fixed

## Features

Wide Input Voltage Range: 0.9V to 5.5V

Stable with Ceramic Capacitors

Very Low Dropout: 45mV at 300mA

Adjustable Output Range: 0.4V to 3.6V

Low Noise: 80 $\mu$ VRMS (10Hz to 100kHz)

BIAS Voltage Range: 2.5V to 5.5V

Fast Transient Recovery

Shutdown Disconnects Load from VIN and VBIAS

Low Operating Current: = 50 $\mu$ A Typ

Low Shutdown Current: = 0.01 $\mu$ A Typ

Output Current Limit

Thermal Overload Protection

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

## Application

Low Power Handheld Devices

Low Voltage Logic Supplies

DSP Power Supplies

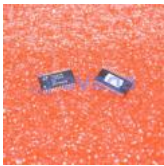
Cellular Phones

Portable Electronic Equipment

Handheld Medical Instruments

Post Regulator for Switching Supply Noise Rejection

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN