

LDO Regulator, 1.5A Adjustable, 0.4 2.6 V 10-Pin, DFN

Manufacturers	Analog Devices, Inc
Package/Case	DFN-10
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3026EDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3026 is a very low dropout (VLDO™) linear regulator that can operate at input voltages down to 1.14V. The device is capable of supplying 1.5A of output current with a typical dropout voltage of only 100mV. To allow operation at low input voltages the LTC3026 includes a boost converter that provides the necessary headroom for the internal LDO circuitry.

Output current comes directly from the input supply to maximize efficiency. The boost converter requires only a small chip inductor and ceramic capacitor for operation. Additionally, the boosted output voltage of one LTC3026 can supply the boost voltage for other LTC3026s, thus requiring a single inductor for multiple LDOs. A user supplied boost voltage can be used eliminating the need for an inductor altogether.

The LTC3026 regulator is stable with 10µF or greater ceramic output capacitors. The device has a low 0.4V reference voltage which is used to program the output voltage via two external resistors. The device also has internal current limit, overtemperature shutdown, and reverse output current protection. The LTC3026 is available in a small 10-lead MSOP or low profile (0.75mm) 10-lead 3mm × 3mm DFN package.

Features LTC3026 Integrated boost converter LTC3026-1 Boost converter internally disabled and required an external 5V supply to operate

Features

Input Voltage Range:

1.14V to 3.5V (with Boost Enabled)

1.14V to 3.5V (with Boost Enabled)

Low Dropout Voltage: 100mV at>

Adjustable Output Range: 0.4V to 2.6V

Output Current: Up to 1.5A

Excellent Supply Rejection Even Near Dropout

Shutdown Disconnects Load from VIN and VBST

Low Operating Current: = 1.5V

Low Shutdown Current:

$I_{IN} < 1\mu A >$

Stable with 10 μ F or Greater Ceramic Capacitors

Short-Circuit, Reverse Current Protected

Overtemperature Protected

Available in 10-Lead MSOP and 10-Lead (3mm \times 3mm) DFN Packages

Application

High Efficiency Linear Regulator

Post Regulator for Switching Supplies

Microprocessor Supply



Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

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MSOP10



[LTC1966CMS8#PBF](#)

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MSOP-8P



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

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