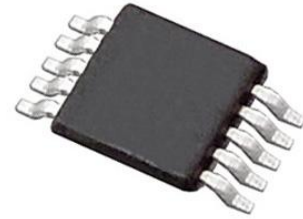


Step Up DC-DC Converter, Adjustable, 2.6 5.5 V 10-Pin, MSOP

Manufacturers	Analog Devices, Inc
Package/Case	MSOP10
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3401EMS#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3401 is a high efficiency, fixed frequency, step-up DC/DC converter that operates from an input voltage below 1V. The device includes a 0.16Ω N-channel MOSFET switch and a 0.18Ω P-channel synchronous rectifier. Switching frequencies up to 3MHz are programmed with an external timing resistor and the oscillator can be synchronized to an external clock. An external Schottky diode is optional but will slightly improve efficiency.

Quiescent current is only 38μA in Burst Mode operation, maximizing battery life in portable applications. Burst Mode operation is user controlled and can be enabled by driving the MODE/SYNC pin high. If the MODE/SYNC pin has either a clock or is driven low, then fixed frequency switching is enabled.

Other features include 1μA shutdown, antiringing control, open-drain power good output, thermal shutdown and current limit. The LTC3401 is available in the 10-lead thermally enhanced MSOP package. Higher current applications should use the 2A rated LTC3402 synchronous boost converter. Applications that require $V_{OUT} < 2.6V$ should use the LTC3423.

Features

Synchronous Rectification: Up to 97% Efficiency

1A Switch Current Rating

Fixed Frequency Operation Up to 3MHz

Wide Input Range: 0.5V to 5V (Operating)

Very Low Quiescent Current: 38 μ A (Burst Mode[®] Operation)

2.6V to 5V Adjustable Output Voltage

0.85V (Typ) Start-Up Voltage

No External Schottky Diode Required ($V_{OUT} < 4.3V$)

Synchronizable Switching Frequency

Burst Mode Enable Control

Antiringing Control Reduces Switching Noise

PGOOD Output

OPTI-LOOP[®] Compensation

Very Low Shutdown Current: $< 1\mu A$

Small 10-Pin MSOP Package

Application

Pagers

Handheld Instruments

Cordless Phones

Wireless Handsets

GPS Receivers

Battery Backup

CCFL Backlights

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

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BGA40



[LT1038CK](#)

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TO-3



[LTC3440EMS](#)

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MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN