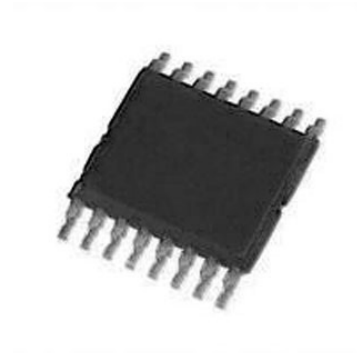


3A, 2MHz Monolithic Synchronous Regulator for DDR/QDR Memory Termination; Package: TSSOP; No of Pins: 16; Temperature Range: -40°C to +125°C

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-16
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3413EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3413 is a high efficiency monolithic synchronous step-down DC/DC converter utilizing a constant frequency, current mode architecture. It operates from an input voltage range of 2.25V to 5.5V and provides a regulated output voltage equal to $(0.5)V_{REF}$ while sourcing or sinking up to 3A of output current. An internal voltage divider reduces component count and eliminates the need for external resistors by dividing the reference voltage in half. The internal synchronous power switch with 85mΩ on-resistance increases efficiency and eliminates the need for an external Schottky diode. Switching frequencies up to 2MHz are set by an external resistor.

Forced-continuous operation in the LTC3413 reduces noise and RF interference. Fault protection is provided by an overcurrent comparator that limits output current during both sourcing and sinking operations. Adjustable compensation allows the transient response to be optimized over a wide range of loads and output capacitors.

Features

High Efficiency: Up to 90%

Symmetrical Source and Sink Output Current Limit

Low RDS(ON) Internal Switch: 85mΩ

No Schottky Diode Required

2.25V to 5.5V Input Voltage Range>

Programmable Switching Frequency: Up to 2MHz

Power Good Output Voltage Monitor

Overtemperature Protected

Available in 16-Lead TSSOP Exposed Pad Package

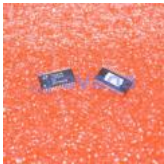
Application

Bus Termination: DDR and QDR™ Memory, SSTL, HSTL, ...

Notebook Computers

Distributed Power Systems

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