

Switching Voltage Regulators 2A, 1MHz Synchronous Step-Up DC/DC Converter

Manufacturers	Analog Devices, Inc
Package/Case	DFN8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3539EDCB#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3539/LTC3539-2 are synchronous, 2A step-up DC/DC converters with output disconnect. Synchronous rectification enables high efficiency in the low profile 2mm × 3mm DFN package. Battery life is extended with a 700mV start-up voltage and operation down to 500mV once started.

A switching frequency of 1MHz (LTC3539) or 2MHz (LTC3539-2) minimizes solution footprint by allowing the use of tiny, low profile inductors and ceramic capacitors. The current mode PWM design is internally compensated, reducing external parts count. The LTC3539/LTC3539-2 feature a pin-enabled automatic Burst Mode operation at light load conditions. Anti-ringing circuitry reduces EMI by damping the inductor in discontinuous mode. Additional features include a low shutdown current of under 1µA and thermal overload protection.

The LTC3539/LTC3539-2 are offered in a 2mm × 3mm × 0.75mm DFN package.

Features

Delivers 3.3V at 900mA From 2 Alkaline/NiMH Cells

Delivers 5V at 900mA From a Lithium-Polymer Battery

VIN Start-Up Voltage: 700mV

1.5V to 5.25V VOUT Range

Up to 94% Efficiency

VIN > VOUT Operation

1MHz (LTC3539) or 2MHz (LTC3539-2) Fixed Frequency Operation

Output Disconnect

Selectable Burst Mode® or PWM Operation

10µA Quiescent Current

Logic Controlled Shutdown: <1µA

Requires Only 6 External Components

Low Profile (2mm × 3mm × 0.75mm) DFN Package

Application

Medical Instruments

Portable Bar Code Scanners

Noise Canceling Headphones

Portable GPS Navigation

Handheld PCs

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



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TO-3



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[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN