

Conv DC-DC 1.8V to 5.5V Synchronous Non-Inverting/Inverting/Step Up/Step Down
Single-Out 3.3V 0.2A 6-Pin TSOT-23 T/R

Manufacturers	Analog Devices, Inc
Package/Case	SOT23
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3531ES6-3.3#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3531/LTC3531-3.3/LTC3531-3 are synchronous buck-boost DC/DC converters that operate from input voltages above, below or equal to the output voltage. The topology incorporated in the ICs provides a continuous transfer through all operating modes, making the product ideal for single cell Li-Ion and multicell alkaline or nickel applications. The converters operate in Burst Mode, minimizing solution footprint and component count as well as providing high conversion efficiency over a wide range of load currents.

The devices include two 0.5Ω N-channel MOSFET switches and two P-channel switches (0.5Ω , 0.8Ω). Quiescent current is typically $16\mu\text{A}$, making the parts ideal for battery power applications. Other features include a $<1\mu\text{A}$ shutdown current, current limiting, thermal shutdown and output disconnect. The parts are offered in a 6-pin ThinSOT™ package for fixed voltage versions or a $3\text{mm} \times 3\text{mm}$ DFN package for fixed and adjustable versions.

Features

Regulated Output with Input Above, Below or Equal to the Output

Single Inductor

Up to 90% Efficiency

VIN Range: 1.8V to 5.5V

200mA at 3.3VOUT from 3.6V Input

125mA at 3VOUT from 2.5V Input

Fixed VOUT Versions (TSOT, DFN): 3.3V, 3V

Adjustable VOUT Version (DFN): 2V to 5V

Burst Mode® Operation, No External Compensation

Ultra Low Quiescent Current: 16µA, Shutdown Current <1µA

Only 3 External Components Required(Fixed Voltage Versions)

Short-Circuit Protection

Output Disconnect in Shutdown

Available in 6-Pin ThinSOT and 3mm × 3mm DFN Packages

Application

Handheld Instruments

MP3 Players

Handheld computers

PDA/GPS



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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BGA40



[LT4295IUFD#PBF](#)

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28-WFQFN