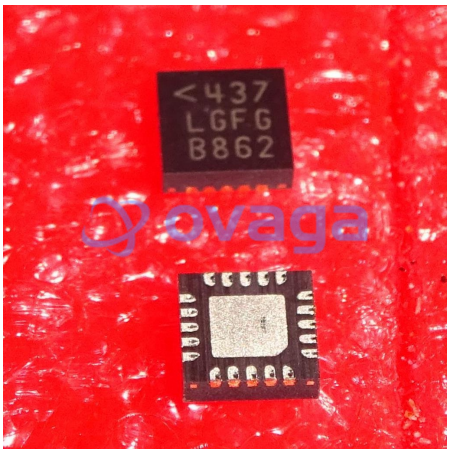
LTC3554EUD-1#PBF

Data Sheet

Micropower USB Power Manager with Li-Ion Charger and Two Step-Down Regulators

Manufacturers	Analog Devices, Inc
Package/Case	QFN-20
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3554EUD-1#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LTC3554 family are micropower, highly integrated power management and battery charger ICs for single-cell Li-Ion/Polymer battery applications. They include a PowerPath™ manager with automatic load prioritization, a battery charger, an ideal diode and numerous internal protection features. Designed specifically for USB applications, the LTC3554 power managers automatically limit input current to a maximum of either 100mA or 500mA. Battery charge current is automatically reduced such that the sum of the load current and the charge current does not exceed the selected input current limit.

The LTC3554 also includes two synchronous step-down switching regulators as well as a pushbutton controller. With all supplies enabled in standby mode, the quiescent current drawn from the battery is only 10µA. The LTC3554 family are available in a 3mm × 3mm × 0.75mm 20-lead QFN package.

Features

10µA Standby Mode Quiescent Current (All Outputs On)

Seamless Transition Between Input Power Sources: Li-Ion/Polymer Battery and USB

240mΩ Internal Ideal Diode

Dual High Efficiency Step-Down Switching Regulators (200mA IOUT) with Adjustable Output Voltages

Pushbutton On/Off Control with System Reset

Reset Time: 5 sec (LTC3554/LTC3554-1), 14 sec (LTC3554-2/LTC3554-3)

Full Featured Li-Ion/Polymer Battery Charger

Programmable Charge Current with Thermal Limiting

Instant-On Operation with Discharged Battery

Battery Float Voltage: 4.2V (LTC3554/LTC3554-2/LTC3554-3), 4.1V (LTC3554-1)

3mm × 3mm × 0.75mm 20-Lead QFN Package

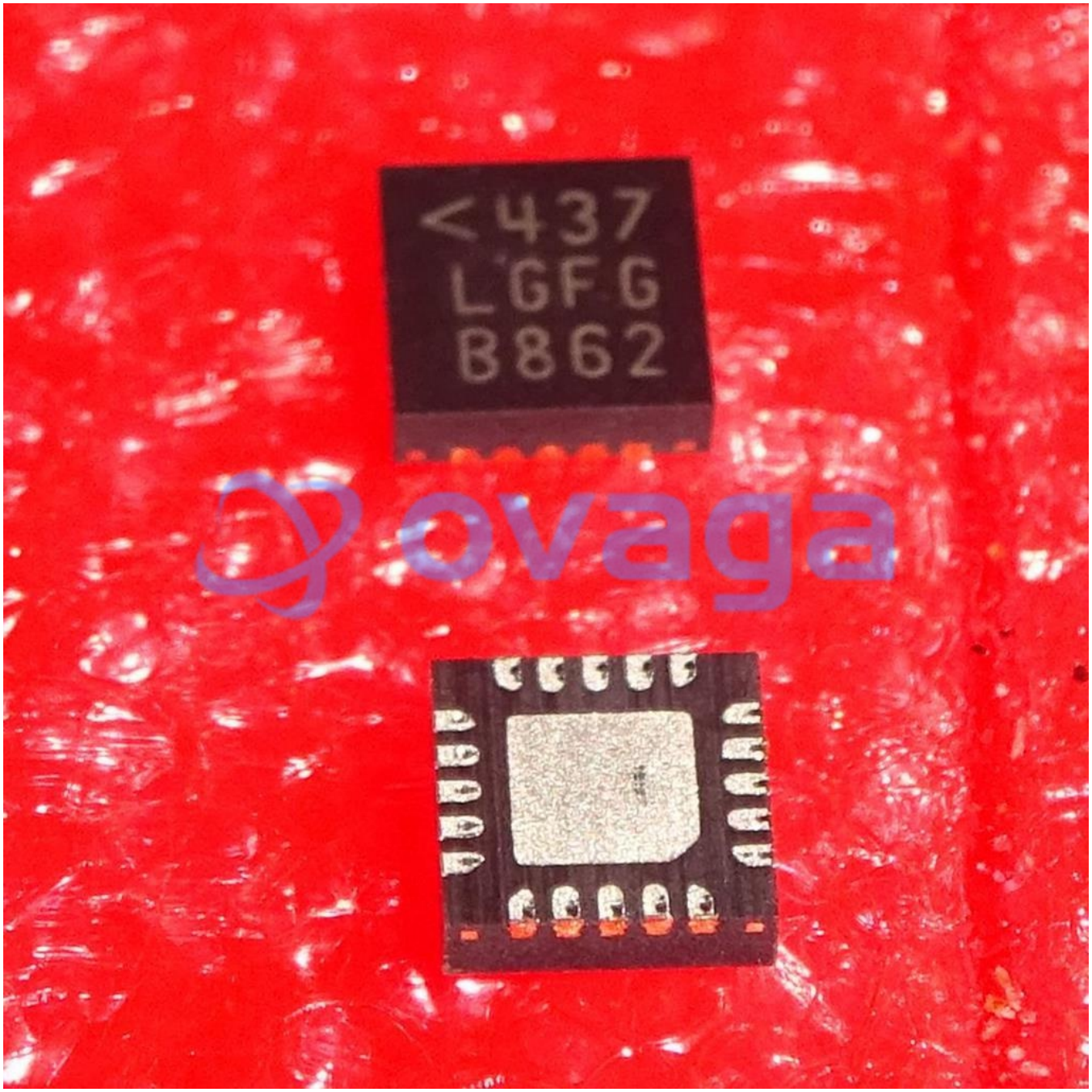
Application

USB-Based Handheld Products

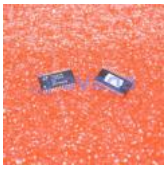
Portable Li-Ion/Polymer Based Electronic Devices

Fitness Computers

Low Power Medical Devices



Related Products



[LT3763EFE](#)

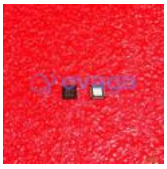
Analog Devices, Inc

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

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