

LTC News for Immediate Release

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**High Accuracy 250mA Standalone Li-Ion Coin Cell Battery Charger in
2mm x 2mm Package**

MILPITAS, CA – November 23, 2005 – Linear Technology Corporation introduces the LTC4065L, a tiny fully integrated standalone linear battery charger that charges single coin cell Li-Ion batteries up to 250mA without overheating the device or surrounding components. This full-featured IC offers a $4.2V \pm 0.5\%$ accurate float voltage, 5% charge current accuracy, timer termination and C/10 detection and is housed in a miniature 2mm x 2mm DFN package. A complete solution requires only two discrete components (input capacitor and a charge current program resistor) and fits into a 2.5mm x 2.7mm x 0.75mm form factor. Its small size and ability to regulate low charge currents make it well suited for applications in small capacity rechargeable Lithium battery-powered portable devices such as MP3 players, wireless headsets and Bluetooth-enabled devices.

The LTC4065L requires no external MOSFET, sense resistor or blocking diode. A patented thermal regulation scheme prevents the junction temperature of the IC from exceeding 115°C by reducing charge current during high power or high ambient temperature operation. Other features of the LTC4065L include a charge current monitor output for charge termination, recharge, trickle charging and charge status indication. Charge current is adjustable with a standard off-the-shelf resistor. The device is designed to work with supplies up to 5.5V, including those within USB specifications and from 5V wall adapters. During shutdown, the supply current is only 20uA and battery drain current is less than 1uA, extending battery run time.

The LTC4065L is rated for operation from -40°C to 85°C. Pricing starts at \$1.10 each in 1,000-piece quantities.

(more...)

Summary of Features: LTC4065L

- Standalone Charger: Termination, Pre-Charge, Charge Control and Recharge
- Programmable Charge Current up to 250mA with $\pm 5\%$ Accuracy
- Safety Timer Charge Termination
- C/10 Charge Current Detection Output
- Thermal Regulation Maximizes Charge Rate without Risk of Overheating
- Charge Status Indicator
- Charge Current Monitor Output for Charge Termination
- No External MOSFET, Sense Resistor or Blocking Diode Required
- Tiny Low-Profile (0.75mm) 2mm x 2mm DFN-6 Package

About Linear Technology Corporation

Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems. For more information, visit www.linear.com

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