

# 深圳市芯创世纪电子有限公司 HX6001E

Standalone Linear Li-Ion Battery Charger with Thermal Regulation

#### **Features**

- Programmable Charge Current up to 700mA
- No MOSFET, Sense Resistor or Blocking Diode Required
- Constant-Current/Constant-Voltage
  Operation with Thermal Regulation to
  Maximize Charge Rate
- Charges Single Cell Li-Ion Batteries Directly from USB Port
- Preset 4.35V Charge Voltage with 1% Accuracy
- > Automatic Recharge
- 2.9V Trickle Charge Threshold
- > Available in 5-Lead SOT-23 Package

## **Applications**

- > Charger for Li-Ion Coin Cell Batteries
- Portable MP3 Players, Wireless Headsets
- Bluetooth Applications
- Multifunction Wristwatches

### Description

The HX6001E is a complete constant-current/ constant-voltage linear charger for single cell lithium-ion batteries. Its package and low external component count make the HX6001E ideally suited for portable applications. Furthermore, the HX6001E is specifically designed work within **USB** power to specifications.

No external sense resistor is needed, and no blocking diode is required due to the internal MOSFET architecture. The charge voltage is fixed at 4.35V, and the charge current can be programmed externally with a single resistor. The HX6001E automatically terminates the charge cycle when the charge current drops to 1/10<sup>th</sup> the programmed value after the final float voltage is reached.

The HX6001E converters are available in the industry standard SOT-23-5L power packages (or upon request).

### Order Information

HX6001E- (1) (2):

SYMBOL	DESCRIPTION
1)	Denotes Output Voltage:
	P: 4.35V
2	Denotes Package Type:
	E: SOT-23-5L