

深圳市芯创世纪电子有限公司 HX6007

Standalone Linear Li-Lon Battery Charger with Thermal Regulation

Features

- \triangleright Wide Input Voltage: 4.5V \sim 12V
- Programmable Charge Current Up to 600mA
- No MOSFET, Sense Resistor or Blocking Diode Required
- Constant-Current/Constant-Voltage
 Operation with Thermal Regulation to
 Maximi ze Charge Rate
- Without Risk of Overheating
- Charges Single Cell Li-Ion Batteries
 Directly from USB Port
- Preset 4.2V Charge Voltage with 1% Accuracy
- Automatic Recharge
- > 2.9V Trickle Charge Threshold
- > Available in 6-Lead SOT-23 Package

Applications

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

Description

HX6007 The is а complete constant current/constant voltage linear charger for single cell lithium-ion batteries. Its package and low external component count make the HX6007 ideally suited for portable applications. Furthermore, the HX6007 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 4.2V, and the charge current can be programmed externally with a single resistor. The HX6007 automatically terminates the charge cycle when the charge current drops to 1/10th the programmed value after the final float voltage is reached.

The HX6007 converters are available in the industry standard SOT-23-6L power packages (or upon request).

Order Information

HX6007 - 1) 2 :

SYMBOL	DESCRIPTION
1	Denotes Output Voltage: N: 4.2V
2	Denotes Package Types:
	E: SOT-23-6L