

# 深圳市芯创世纪电子有限公司 HX6021A

High Accuracy Linear Li-Lon Battery Charger

#### **Features**

- Programmable Charge Current Up to 1A
- 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 4.2V Charge Voltage with 1% Accuracy
- Automatic Recharge
- > 2.8V Trickle Charge Threshold
- > Available in SOP8-PP Package

### **Applications**

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

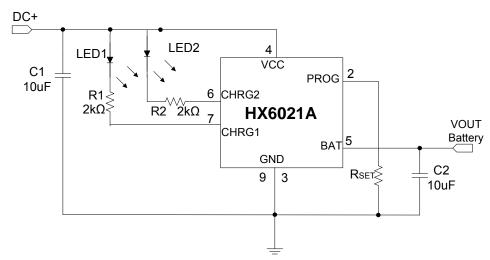
#### Description

The HX6021A is a complete constant current /constant voltage linear charger for single cell lithium-ion batteries. Its package and low external component count make the HX6021A suited for portable applications. Furthermore, the HX6021A is specifically designed within **USB** to work power specifications.

The charge voltage is fixed at 4.2V, and the charge current can be programmed externally with a single resistor. The HX6021A 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 HX6021A converters are available in the industry standard SOP8-PP power packages (or upon request).

## **Typical Application Circuit**



- \* IBAT = (VPROG/RSET)\*900
- \* When charging in constant-current mode, the VPROG is usually 1V.