



Features

- Programmable Charge Current Up to 800mA
- No MOSFET, Sense Resistor or Blocking Diode Required
- Constant-Current/Constant-Voltage Operation with Thermal Regulation to Maximize 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 DFN3*3-10L Package

Applications

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

Description

The HX6014 is a complete constant-current/constant voltage linear charger for single cell lithium-ion batteries. Its package and low external component count make the HX6014 ideally suited for portable applications. Furthermore, the HX6014 is specifically designed to work within USB power 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 HX6014 automatically terminates the charge cycle when the charge current drops to 1/10th the programmed value after the final float voltage is reached.

The HX6014 converters are available in the industry standard DFN3*3-10L power packages (or upon request).

Order Information

HX6014 - ① ②:

SYMBOL	DESCRIPTION
①	Denotes Output voltage: N: 4.2V
②	Denotes Package Types: J: DFN3*3-10L