



Features

- Programmable Charge Current up to 900mA
- 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
- 2.8V 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 HX6009D is a complete constant current /constant voltage linear charger for single cell lithium-ion batteries. Its package and low external component count make the HX6009D ideally suited for portable applications. Furthermore, the HX6009D is specifically designed to work within USB power specifications.

The charge voltage is fixed at 4.35V, and the charge current can be programmed externally with a single resistor. The HX6009D automatically terminates the charge cycle when the charge current drops to 1/10th the programmed value after the final float voltage is reached.

The HX6009D converters are available in the industry standard SOP8-PP power packages (or upon request).