

Features

- Input Supply Range: 4.7V ~ 6V
- High Efficiency Current Mode PWM Controller
- End - Charge - Current Detection Output
- Constant Switching Frequency for Minimum Noise
- ±1% Charge Voltage Accuracy
- Automatic Battery Recharge
- Automatic Shutdown When Input Supply is Removed
- Automatic Trickle Charging of Low Voltage Batteries
- Battery Temperature Sensing
- Stable with Ceramic Output Capacitor
- 8-Lead SOP Package

Description

The HX6202 is a complete battery charger controller for one (4.22V) cell lithium-ion battery. The HX6202 provides a small, simple and efficient solution to fast charge Li-ion battery. An external sense resistor sets the charge current with high accuracy. An internal resistor divider and precision reference set the final float voltage to 4.22V per cell with ±1% accuracy.

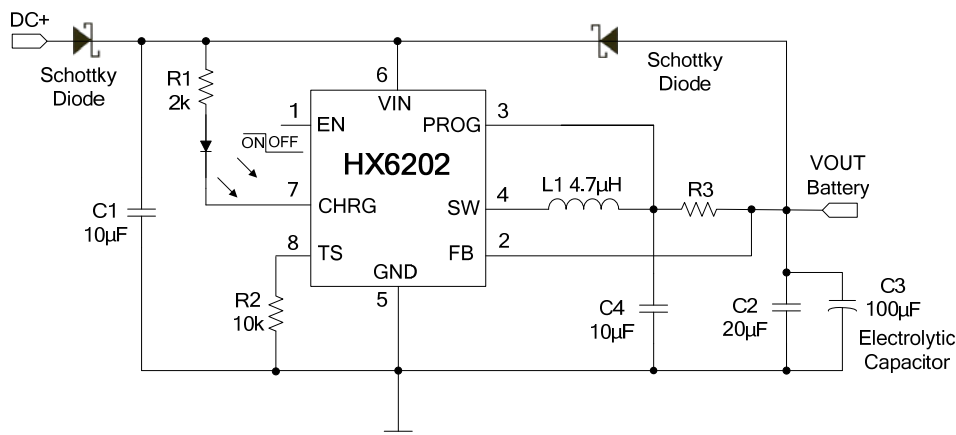
When the input supply is removed, the HX6202 automatically enters a low current sleep mode, dropping the battery drain current to 4µA. After the charge cycle ends, if the battery voltage drops below 4.05V per cell, a new charge cycle will automatically begin.

The HX6202 is available in the 8-lead SOP Package.

Application

- Charging Docks
- Handheld Instruments
- Portable Computers

Typical Application Circuit



*The charge current can be set by $I_{BAT} = 0.17V/R3$.

*This application circuit is for MID.