



## Description

The SE9018 is a complete constant - current & constant-voltage linear charger for single cell lithium-ion batteries. Its PSOP8 package and low external component count make the SE9018 ideally suited for portable applications. Further more , the SE9018 can work within USB and wall adapter.

No blocking diode is required due to the internal PMOSFET architecture and have prevent to negative Charge Current Circuit. Thermal feedback regulates the charge current to limit the die temperature during high power operation or high ambient temperature. The charge voltage is fixed at 4.2V, and the charge current can be programmed externally with a single resistor. The SE9018 automatically terminates the charge cycle when the charge current drops to 1/10th the programmed value after the final float voltage is reached.

SE9018 Other features include current monitor, under voltage lockout, automatic recharge and two status pin to indicate charge termination and the presence of an input voltage.

## Features

- Programmable Charge Current Up to 1000mA
- No MOSFET, Sense Resistor or Blocking Diode Required
- Complete Linear Charger in SOP-8 Package for Single Cell Lithium-Ion Batteries
- Constant-Current/Constant-Voltage
- Charges Single Cell Li-Ion Batteries Directly from USB Port
- Preset 4.2V Charge Voltage with 1.5% Accuracy
- Automatic Recharge
- Two Charge Status Output Pins
- C/10 Charge Termination
- 2.9V Trickle Charge Threshold
- Soft-Start Limits Inrush Current
- Available Radiator in PSOP8 Package, the Radiator need connect GND or impending

## Application

- Charging Docks and Cradles
- Cellular Telephones, PDAs, GPS
- MP3、MP4 Player
- Digital Still Cameras, Portable Devices
- USB Bus-Powered Chargers, Chargers

## Typical Application

