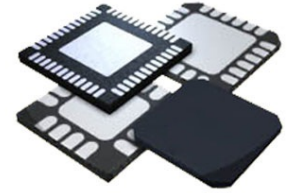


Linear Battery Charger Li-Ion/Li-Pol 1600mA 4.2V 10-Pin DFN EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Renesas Technology Corp](#)

Package/Case: QFN

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The ISL6292 is an integrated single-cell Li-ion or Li-polymer battery charger capable of operating with an input voltage as low as 2.4V. This charger is designed to work with various types of AC adapters or a USB port. The ISL6292 operates as a linear charger when the AC adapter is a voltage source. The battery is charged in a CC/CV (constant current/constant voltage) profile. The charge current is programmable with an external resistor up to 2A. The ISL6292 can also work with a current-limited adapter to minimize the thermal dissipation, in which case, the ISL6292 combines the benefits of both a linear charger and a pulse charger. The ISL6292 features charge current thermal foldback to guarantee safe operation when the printed circuit board is space limited for thermal dissipation. Additional features include preconditioning of an over-discharged battery, an NTC thermistor interface for charging the battery in a safe temperature range, automatic recharge, and thermally enhanced QFN or DFN packages.

Key Features

Complete Charger for Single-Cell Li-ion Batteries

Very Low Thermal Dissipation

Integrated Pass Element and Current Sensor

No External Blocking Diode Required

1% Voltage Accuracy

Programmable Current Limit up to 2A

Programmable End-of-Charge Current

Charge Current Thermal Foldback

NTC Thermistor Interface for Battery Temperature Monitor

Accepts Multiple Types of Adapters or USB BUS Power

Guaranteed to Operate at 2.65V After Start-Up

Ambient Temperature Range: -20 °C to +70 °C

Thermally-Enhanced QFN Packages

Handheld Devices, including Medical Handhelds

PDA's, Cell Phones and Smart Phones

Portable Instruments, MP3 Players

Self-Charging Battery Packs

Stand-Alone Chargers

USB Bus-Powered Chargers

Pb-Free Available (RoHS Compliant)

Recommended For You

ISL83202IBZ

Renesas Technology Corp

SOP16

ISL9492ERZ

Renesas Technology Corp

QFN

ISL6520ACBZ-T

Renesas Technology Corp

SOP8

ISL62883CHRTZ

Renesas Technology Corp

QFN

ISL95836HRTZ-T

Renesas Technology Corp

QFN40

ISL95837HRZ-T

Renesas Technology Corp

QFN40

ISL95837HRZ

Renesas Technology Corp

QFN40

ISL9301HRZ

Renesas Technology Corp

DFN10

ISL95835HRZ

Renesas Technology Corp

QFN

ISL95812HRZ

Renesas Technology Corp

QFN

ISL95870HRUZ-T

Renesas Technology Corp

QFN16

ISL6521IBZ

Renesas Technology Corp

SOP16

ISL62882CHRTZ

Renesas Technology Corp

QFN

ISL95870BIRZ-T

Renesas Technology Corp

QFN20

ISL78214ARZ

Renesas Technology Corp

QFN