

# ISL9204IRZ-T

Data Sheet

Battery Charger Li-Ion/Li-Pol 50mA to 350mA 4.2V

Manufacturers	Renesas Technology Corp
Package/Case	DFN-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL9204IRZ-T or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

# **General Description**

The ISL9204 is a cost-effective, fully integrated high input voltage single-cell Li-ion battery charger. This charger performs the CC/CV charge function required by Li-ion batteries. The charger accepts an input voltage up to 28V but is disabled when the input voltage exceeds the OVP threshold, minimum 10V, to prevent excessive power dissipation. The 28V rating eliminates the overvoltage protection circuit required in a low input voltage charger. The charge current and the end-of-charge (EOC) current are programmable with external resistors. When the battery voltage is lower than a typical value of 2.8V, the charger preconditions the battery with typically 17% of the programmed charge current. When the charge current reduces to the programmable EOC current level during the CV charge phase, an EOC indication is provided by the CHG pin, which is an open-drain output. An internal thermal foldback function protects the charger from any thermal failure. Two indication pins (PPR and CHG) allow simple interface to a microprocessor or LEDs. When no adapter is attached or when disabled, the charger draws less than 1µA leakage current from the battery.

# Features

- Complete Charger for Single-Cell Li-ion/Polymer Batteries Integrated Pass Element and Current Sensor No External Blocking Diode Required Low Component Count and Cost 1% Voltage Accuracy Programmable Charge Current Programmable End-of-Charge Current Charge Current Thermal Foldback for Thermal Protection Trickle Charge for Fully Discharged Batteries 28V Maximum Voltage for the Power Input Power Presence and Charge Indications Less than 1µA Leakage Current Off the Battery when No Input Power Attached or Charger Disabled Ambient Temperature Range: -40°C to 85°C
- Pb-Free Plus Anneal Available (RoHS Compliant)



#### **Related Products**



ISL6262ACRZ

Renesas Technology Corp QFN-48



ISL21080CIH315Z-TK





Renesas Technology Corp QFN-48



**ISL62771HRTZ** Renesas Technology Corp QFN40









ISL95808HRZ-T Renesas Technology Corp

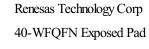
## ISL6294IRZ-T

Renesas Technology Corp QFN-8

#### ISL6506BCBZ

Renesas Technology Corp SOP-8

### ISL62771HRTZ-T



DFN-8