



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SMBus Level 2 Battery Charger

ISL88733

The ISL88733 is a highly integrated Lithium-ion battery charger controller, programmable over the SMBus system management bus (SMBus). The ISL88733 is intended to be used in a smart battery charger (SBC) within a smart battery system (SBS) that throttles the charge power such that the current from the AC-adaptor is automatically limited. High efficiency is achieved with a DC/DC synchronous-rectifier buck converter, equipped with diode emulation for enhanced light load efficiency. The ISL88733 charges one to four Lithium-ion series cells, and delivers up to 8A charge current. Integrated MOSFET drivers and bootstrap diode result in fewer components and smaller implementation area. Low offset current-sense amplifiers provide high accuracy with 10mΩ sense resistors. The ISL88733 provides 0.5% end-of-charge battery voltage accuracy.

The ISL88733 is available in a small 5mmx5mm 28 Ld Thin (0.8mm) QFN package.

Features

- Pin compatible with ISL88731
- Over-temp and overcurrent protection
- 0.5% battery voltage accuracy
- 4% adapter current limit accuracy
- 3% charge current accuracy
- SMBus 2-wire serial interface
- Charge current limited by SMBus DAC OR analog voltage at the CCLIM pin
- Monitor outputs
 - Adapter current (3% Accuracy)
 - Adapter overcurrent ALERT#. Threshold set by resistor divider
 - AC-adaptor detection
- 11-Bit battery voltage setting
- 6-Bit charge current/adapter current setting
- 8A maximum battery charger current
- 11A maximum adapter current
- +8V to +22V adapter voltage range
- Pb-Free (RoHS compliant)

Applications

- Notebook computers
- Tablet PCs

Typical Operating Performance

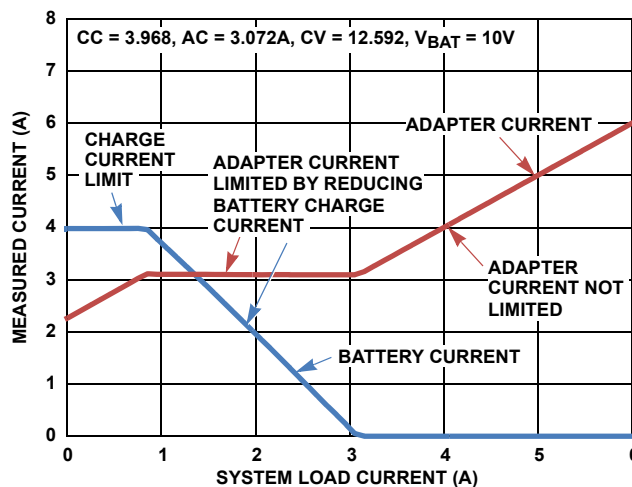


FIGURE 1. ISL88733 CURRENT CONTROL IN 3 MODES

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