

LTC2943CDD#PBF

Fuel Gauge Lead-Acid/Li-FePO4/Li-Ion/Li-Pol/NiCd/NiMH Automotive 8-Pin DFN EP Tube

Manufacturer: Analog Devices, Inc

Package/Case: DFN-8

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free

Lifecycle: Active



Images are for reference only

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General Description

The LTC2943 measures battery charge state, battery voltage, battery current and its own temperature in portable product applications. The wide input voltage range allows use with multicell batteries up to 20V. A precision coulomb counter integrates current through a sense resistor between the battery's positive terminal and the load or charger. Voltage, current and temperature are measured with an internal 14-bit No Latency $\Delta \Sigma^{TM}$ ADC. The measurements are stored in internal registers accessible via the onboard I2C/SMBus Interface.

The LTC2943 features programmable high and low thresholds for all four measured quantities. If a programmed threshold is exceeded, the device communicates an alert using either the SMBus alert protocol or by setting a flag in the internal status register. The LTC2943 requires only a single low value sense resistor to set the measured current range.

Key Features	Application
Measures Accumulated Battery Charge and Discharge	Power Tools
3.6V to 20V Operating Range for Multiple Cells Application	Electric Bicycles

14-Bit ADC Measures Voltage, Current and Temperature

Portable Medical Equipment 1% Voltage, Current and Charge Accuracy

High Side Sense Video Cameras

General Purpose Measurements for Any Battery Chemistry and Capacity

Configurable Alert Output/Charge Complete Input

Quiescent Current Less Than 120µA

I2C/SMBus Interface

Small 8-Lead 3mm × 3mm DFN Package

Recommended For You

LTC4259ACGW-1 LTC4259ACGW

Analog Devices, Inc Analog Devices, Inc Analog Devices, Inc

SOT23-6 SSOP36 SSOP36

LTC1530IS8 LTC4252-2IMS LTC4412ES6#PBF

Analog Devices, Inc Analog Devices, Inc Analog Devices, Inc

SOP8 MSOP10 SOT23-6

LTC4412ES6#TRPBF LTC2942CDCB#TRMPBF LT1054IN8

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SOT23-6 DFN-6 DIP-8

LTC4416EMS#PBF LTC4357IMS8 LTC4414IMS8#PBF

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MSOP10 MSOP8 MSOP8

LTC4413EDD LT3469EIS8#TRMPBF LTC4412HVIS6

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DFN10 SOT23-8 SOT23-6