

## LTC2943IDD#PBF

Data Sheet

Multicell Battery Gas Gauge with Temperature, Voltage and Current Measurement

Manufacturers Analog Devices, Inc

Package/Case 8-Lead DFN (3mm x 3mm x 0.75mm w/ EP)

Product Type Power Management ICs

RoHS

Lifecycle

Please submit RFQ for LTC2943IDD#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.



Images are for reference only

**RFO** 

## **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.

**Features** 

Measures Accumulated Battery Charge and Discharge

3.6V to 20V Operating Range for Multiple Cells Application

14-Bit ADC Measures Voltage, Current and Temperature

1% Voltage, Current and Charge Accuracy

High Side Sense

General Purpose Measurements for Any Battery Chemistry and Capacity

I2C/SMBus Interface

Configurable Alert Output/Charge Complete Input

Quiescent Current Less Than 120µA

Small 8-Lead 3mm × 3mm DFN Package

## **Related Products**



**LT3763EFE** 

Analog Devices, Inc TSSOP28



**LTC4417IUF** 

Analog Devices, Inc QFN-24



LTC1966CMS8#PBF

Analog Devices, Inc MSOP-8P



LTM8045EY#PBF

Analog Devices, Inc BGA40



Power Tools

Electric Bicycles

Portable Medical Equipment

Video Cameras



LT1038CK

Analog Devices, Inc TO-3



LTC3440EMS

Analog Devices, Inc MSOP10



LTC2990IMS#PBF

Analog Devices, Inc 10MSOP



LT4295IUFD#PBF

Analog Devices, Inc 28-WFQFN