LTC6804IG-2#PBF

Data Sheet

Battery Stack Monitor 5.6V Automotive 48-Pin SSOP Tube

Manufacturers	Analog Devices, Inc
Package/Case	SSOP-48
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	

Images are for reference only

Please submit RFQ for LTC6804IG-2#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LTC6804 is a 3rd generation multicell battery stack monitor that measures up to 12 series connected battery cells with a total measurement error of less than 1.2mV. The cell measurement range of 0V to 5V makes the LTC6804 suitable for most battery chemistries. All 12 cell voltages can be captured in 290µs, and lower data acquisition rates can be selected for high noise reduction.

Multiple LTC6804 devices can be connected in series, permitting simultaneous cell monitoring of long, high voltage battery strings. Each LTC6804 has an isoSPI interface for high speed, RF-immune, local area communications. Using the LTC6804-1, multiple devices are connected in a daisy-chain with one host processor connection for all devices. Using the LTC6804-2, multiple devices are connected in parallel to the host processor, with each device individually addressed.

Additional features include passive balancing for each cell, an onboard 5V regulator, and 5 general purpose I/O lines. In sleep mode, current consumption is reduced to 4µA. The LTC6804 can be powered directly from the battery, or from an isolated supply.

Features

Measures Up to 12 Battery Cells in Series

Stackable Architecture Supports 100s of Cells

Built-In isoSPI™ Interface:

1Mbps Isolated Serial Communications

Uses a Single Twisted Pair, Up to 100 Meters

Low EMI Susceptibility and Emissions

1.2mV Maximum Total Measurement Error

290µs to Measure All Cells in a System

Synchronized Voltage and Current Measurement

16-Bit Delta-Sigma ADC with Frequency Programmable 3rd Order Noise Filter

Engineered for ISO26262 Compliant Systems

Passive Cell Balancing with Programmable Timer

5 General Purpose Digital I/O or Analog Inputs:

Temperature or other Sensor Inputs

Configurable as an I2C or SPI Master

4µA Sleep Mode Supply Current

48-Lead SSOP Package

Application

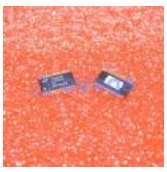
Electric and Hybrid Electric Vehicles

Backup Battery Systems

Grid Energy Storage

High Power Portable Equipment

Related Products



LT3763EFE

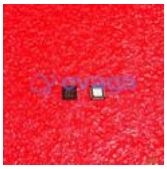
Analog Devices, Inc

TSSOP28

LT1038CK

Analog Devices, Inc

TO-3



LTC4417IUF

Analog Devices, Inc

QFN-24

LTC3440EMS

Analog Devices, Inc

MSOP10

LTC1966CMS8#PBF

Analog Devices, Inc

MSOP-8P

LTC2990IMS#PBF

Analog Devices, Inc

10MSOP

LTM8045EY#PBF

Analog Devices, Inc

BGA40

LT4295IUFD#PBF

Analog Devices, Inc

28-WFQFN