

LT1512CS8#PBF Lead-Acid, Lithium-Ion, NiCD, NiMH, Battery Charge Controller 8-Pin, SOIC

Manufacturers	Analog Devices, Inc
Package/Case	SOIC8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1512CS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT1512 is a 500kHz current mode switching regulator specially configured to create a constant-current/constant-voltage battery charger. In addition to the usual voltage feedback node, it has a current sense feedback circuit for accurately controlling output current of a flyback or SEPIC (Single-Ended Primary Inductance Converter) topology charger. These topologies allow the current sense circuit to be ground referred and completely separated from the battery itself, simplifying battery switching and system grounding problems. In addition, these topologies allow charging even when the input voltage is lower than the battery voltage.

Maximum switch current on the LT1512 is 1.5A. This allows battery charging currents up to 1A for a single lithium-ion cell. Accuracy of 1% in constant-voltage mode is perfect for lithium battery applications. Charging current can be easily programmed for all battery types.

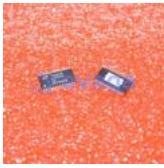
Features

- Charger Input Voltage May Be Higher, Equal to or Lower Than Battery Voltage
- Charges Any Number of Cells Up to 30V*
- 1% Voltage Accuracy for Rechargeable Lithium Batteries
- 500kHz Switching Frequency Minimizes Inductor Size
- 100mV Current Sense Voltage for High Efficiency
- Battery Can Be Directly Grounded
- Charging Current Easily Programmable or Shut Down

Application

- Battery Charging of NiCd, NiMH, Lead-Acid or Lithium Rechargeable Cells
- Precision Current Limited Power Supply
- Constant-Voltage/Constant-Current Supply
- Transducer Excitation

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

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Analog Devices, Inc
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