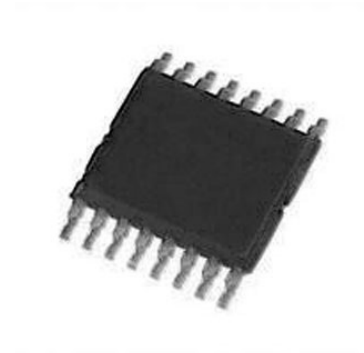


40V, 1A Synchronous Buck-Boost DC/DC Converter with Programmable Output Current

Manufacturers	Analog Devices, Inc
Package/Case	16-Lead TSSOP w/ EP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3114IFE-1#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3114-1 is a versatile, wide operating voltage range synchronous monolithic buck-boost DC/DC converter with programmable average output current. The LTC3114-1's proprietary buck-boost PWM control circuitry delivers low noise operation across the entire operating voltage range. Current mode control ensures exceptional line and load transient responses.

Synchronous, internal MOSFET switches and pin selectable Burst Mode operation maintain high efficiency across the entire range of load current. Average output current is programmed with a standard resistor and provides the basis for wide input range, high efficiency charging systems or constant current, high efficiency LED drive. Regulator turn-on is programmable through the accurate RUN pin. Quiescent current is just 3 μ A in shutdown. Overtemperature protection, short-circuit protection and soft-start are integrated. The LTC3114-1 is offered in 16-lead 3mm \times 5mm \times 0.75mm DFN and 16 lead TSSOP (FE) packages.

Features

Regulates VOUT Above, Below or Equal to VIN

Single Inductor

Wide VIN Range: 2.2V to 40V

Wide VOUT Range: 2.7V to 40V

1A Output Current in Buck Mode

0.5A Output Current, = 5V

Programmable Average Output Current

Up to 96% Efficiency

Burst Mode® Operation, 30µA No-Load IQ

Current Mode Control

1.2MHz Ultralow Noise PWM

Accurate RUN Pin Threshold

AEC-Q100 Qualified for Automotive Applications

Application

24V/28V Industrial Power Supply

12V Lead-Acid to 12V Regulator

High Power LED Driver

12V/24V Solar Panel Battery Charging Systems

Automotive Power Systems

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



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN