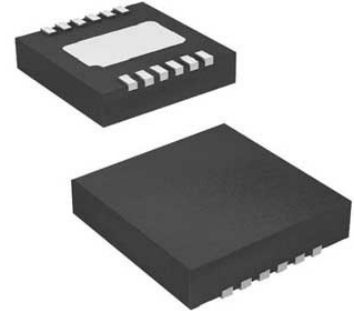


Conv DC-DC 1.8V to 5.5V Synchronous Step Up Single-Out 2.2V to 15V 2.5A 12-Pin DFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	DFN-12
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3122EDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3122 is a synchronous step-up DC/DC converter with true output disconnect and inrush current limiting. The 2.5A current limit along with the ability to program output voltages up to 15V makes the LTC3122 well suited for a variety of demanding applications. Once started, operation will continue with inputs down to 500mV, extending runtime in many applications.

The LTC3122 features output disconnect in shutdown, dramatically reducing input power drain and enabling VOUT to completely discharge. Adjustable PWM switching from 100kHz to 3MHz optimizes applications for highest efficiency or smallest solution footprint. The oscillator can also be synchronized to an external clock for noise sensitive applications. Selectable Burst Mode operation reduces quiescent current to 25µA, ensuring high efficiency across the entire load range. An internal soft-start limits inrush current during start-up.

Other features include a <1µA shutdown current and robust protection under short-circuit, thermal overload, and output overvoltage conditions. The LTC3122 is offered in both a low profile 12-lead (3mm × 4mm × 0.75 mm) DFN package and a 12-lead thermally enhanced MSOP package.

Features

VIN Range: 1.8V to 5.5V, 500mV After Start-Up

Output Voltage Range: 2.2V to 15V

800mA Output Current for = 12V

Output Disconnects from Input When Shut Down

Synchronous Rectification: Up to 95% Efficiency

Inrush Current Limit

Up to 3MHz Adjustable Switching Frequency Synchronizable to External Clock

Selectable Burst Mode® Operation: 25µA IQ

Output Overvoltage Protection

Soft-Start

12-Lead, 3mm × 4mm × 0.75mm Thermally Enhanced DFN and MSOP Packages

Application

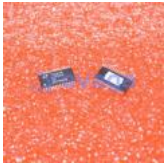
RF Power

Piezo Actuators

Small DC Motors

12V Analog Rail From Battery, 5V, or Backup Capacitor

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



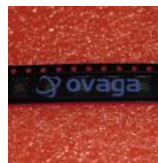
[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN