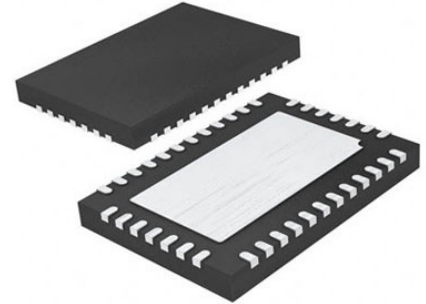


Conv DC-DC 2.25V to 5.5V Synchronous Step Down Single-Out 0.8V to 5V 8A
Automotive 38-Pin QFN EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	QFN-38
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3418EUHF#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3418 is a high efficiency, monolithic synchronous step-down DC/DC converter utilizing a constant frequency, current mode architecture. It operates from an input voltage range of 2.25V to 5.5V and provides a regulated output voltage from 0.8V to 5V while delivering up to 8A of output current. The internal synchronous power switch increases efficiency and eliminates the need for an external Schottky diode. Switching frequency is set by an external resistor or can be synchronized to an external clock. OPTI-LOOP® compensation allows the transient response to be optimized over a wide range of loads and output capacitors.

The LTC3418 can be configured for either Burst Mode operation or forced continuous operation. Forced continuous operation reduces noise and RF interference while Burst Mode operation provides high efficiency by reducing gate charge losses at light loads. In Burst Mode operation, external control of the burst clamp level allows the output voltage ripple to be adjusted according to the requirements of the application. A tracking input in the LTC3418 allows for proper sequencing with respect to another power supply.

Features

High Efficiency: Up to 95%

8A Output Current

2.25V to 5.5V Input Voltage Range

Low RDS(ON) Internal Switch: 35mΩ

Tracking Input to Provide Easy Supply Sequencing

Programmable Frequency: 300kHz to 4MHz

0.8V ±1% Reference Allows Low Output Voltage

Quiescent Current: 380μA

Selectable Forced Continuous/Burst Mode® Operation with Adjustable Burst Clamp

Synchronizable Switching Frequency

Low Dropout Operation: 100% Duty Cycle

Power Good Output Voltage Monitor

Overtemperature Protected

38-Lead Low Profile (0.75mm) Thermally Enhanced QFN (5mm × 7mm) Package

Application

Microprocessor, DSP and Memory Supplies

Distributed 2.5V, 3.3V and 5V Power Systems

Automotive Applications

Point of Load Regulation

Notebook Computers

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



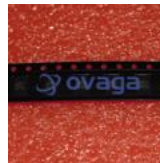
[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EV#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN