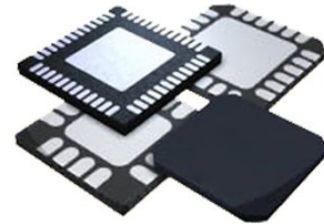


Conv DC-DC Single Step Down 4V to 18V 52Pin QFN EP

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	QFN52
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3608IWKG#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3608 is a high efficiency, monolithic synchronous step-down DC/DC converter that can deliver up to 8A output current from a 4V to 18V (20V maximum) input supply. It uses a valley current control architecture to deliver very low duty cycle operation at high frequency with excellent transient response. The operating frequency is selected by an external resistor and is compensated for variations in VIN and VOUT.

The LTC3608 can be configured for discontinuous or forced continuous operation at light load. Forced continuous operation reduces noise and RF interference while discontinuous mode provides high efficiency by reducing switching losses at light loads.

Fault protection is provided by internal foldback current limiting, an output overvoltage comparator and an optional short-circuit shutdown timer. Soft-start capability for supply sequencing is accomplished using an external timing capacitor. The regulator current limit is user programmable. A power good output voltage monitor indicates when the output is in regulation. The LTC3608 is available in a compact 7mm × 8mm QFN package.

## Features

8A Output Current

Wide VIN>

Internal N-Channel MOSFETs

True Current Mode Control

Optimized for High Step-Down Ratios

$t_{ON(MIN)} \leq 100nsec$

Extremely Fast Transient Response

Stable with Ceramic COUT

Power Good Output Voltage Monitor

Adjustable On-Time/Switching Frequency

Adjustable Current Limit

Programmable Soft-Start

Output Overvoltage Protection

Optional Short-Circuit Shutdown Timer

Low Shutdown IQ: 15 $\mu$ A

Available in a 7mm  $\times$  8mm 52-Lead QFN Package

## Application

Point of Load Regulation

Distributed Power Systems

## Related Products



### [LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



### [LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



### [LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



### [LT1038CK](#)

Analog Devices, Inc  
TO-3



### [LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



### [LTC2990IMS#PBF](#)

Analog Devices, Inc  
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN