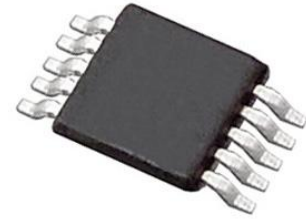


42V, 750mA Synchronous Step-Down Regulator with 2.5 μ A Quiescent Current

Manufacturers	Analog Devices, Inc
Package/Case	10-Lead MSOP w/ EP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT8607EMSE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT8607 is a compact, high efficiency, high speed synchronous monolithic step-down switching regulator that consumes only 1.7 μ A of non-switching quiescent current. The LT8607 can deliver 750mA of continuous current. Low ripple Burst Mode operation enables high efficiency down to very low output currents while keeping the output ripple below 10mVP-P. Internal compensation with peak current mode topology allows the use of small inductors and results in fast transient response and good loop stability. The EN/UV pin has an accurate 1V threshold and can be used to program VIN undervoltage lockout or to shut down the LT8607 reducing the input supply current to 1 μ A. The PG pin signals when VOUT is within $\pm 8.5\%$ of the programmed output voltage as well as fault conditions.

The MSOP package includes a SYNC pin to synchronize to an external clock, or to select Burst Mode operation or pulse-skipping with or without spread spectrum; the TR/SS pin programs soft-start or tracking. The DFN package omits these pins and can be purchased in pulse-skipping or Burst Mode operation.

Features

Wide Input Voltage Range: 3.0V to 42V

Ultralow Quiescent Current Burst Mode® Operation:

Output Ripple <10mVP-P

High Efficiency 2MHz Synchronous Operation:

750mA Maximum Continuous Output

Fast Minimum Switch-On Time: 35ns

Adjustable and Synchronizable: 200kHz to 2.2MHz

Spread Spectrum Frequency Modulation for Low EMI

Allows Use of Small Inductors

Low Dropout

Peak Current Mode Operation

Accurate 1V Enable Pin Threshold

Internal Compensation

Output Soft-Start and Tracking

Small Thermally Enhanced 10-Lead MSOP Package or 8-Lead 2mm × 2mm DFN Package

Application

General Purpose Step Down Converter

Low EMI Step Down

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



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN