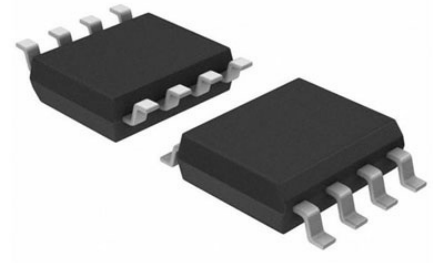


Linear Technology, LTC3810EG#PBF Switching Regulator 2A Adjustable, 0.8 100 V 28-Pin, SSOP

Manufacturers	Analog Devices, Inc
Package/Case	28SSO
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3810EG#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC3810-5 is a synchronous step-down switching regulator controller that can directly step-down voltages from up to 60V, making it ideal for telecom and automotive applications. The LTC3810-5 uses a constant on-time valley current control architecture to deliver very low duty cycles with accurate cycle-by-cycle current limit, without requiring a sense resistor.

A precise internal reference provides 0.5% DC accuracy. A high bandwidth (25MHz) error amplifier provides very fast line and load transient response. Large IO gate drivers allow the LTC3810-5 to drive multiple MOSFETs for higher current applications. The operating frequency is selected by an external resistor and is compensated for variations in VIN and can also be synchronized to an external clock for switching-noise sensitive applications. A shutdown pin allows the LTC3810-5 to be turned off, reducing the supply current to 240μA.

Integrated bias control generates gate drive power from the input supply during start-up or when an output shortcircuit occurs, with the addition of a small external SOT23 MOSFET. When in regulation, power is derived from the output for higher efficiency.

FeaturesAdj. UVLO, Sync & TrackingPackageLTC3810Vin 6.2V to 100V, 10V Driver VoltageYesSSOP-28LTC3810-5Vin 4.35V to 60V, 5.5V Driver VoltageYesQFN-32LTC3812-5Vin 4.35V to 60V, 5.5V Driver VoltageNoTSSOP-16E

Features

High Voltage Operation: Up to 60V

Large 1Ω Gate Drivers

No Current Sense Resistor Required

Dual N-Channel MOSFET Synchronous Drive

Extremely Fast Transient Response

Programmable Output Voltage Tracking/Soft-Start

Generates 5.5V Driver Supply from Input Supply

Synchronizable to External Clock

Selectable Pulse Skip Mode Operation

Power Good Output Voltage Monitor

Adjustable On-Time/Frequency: $t_{ON}(MIN) < 100ns$

Adjustable Cycle-by-Cycle Current Limit

Programmable Undervoltage Lockout

Output Overvoltage Protection

Thermally Enhanced 32-Pin QFN Package

Application

48V Telecom and Base Station Power Supplies

Networking Equipment, Servers

Automotive and Industrial Control 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