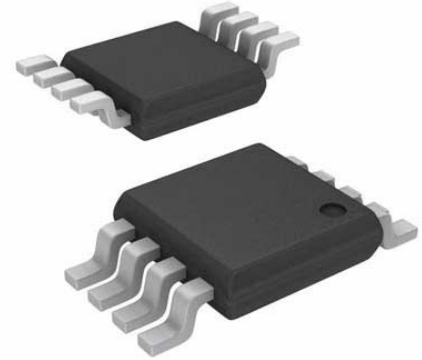


LTC4440EMS8E#PBF High Side MOSFET Power Driver, 2.4A 8-Pin, MSOP

Manufacturers	Analog Devices, Inc
Package/Case	MSOP8
Product Type	PMIC - MOSFET, Bridge Drivers - Internal Switch
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC4440EMS8E#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC4440 is a high frequency high side N-channel MOSFET gate driver that is designed to operate in applications with VIN voltages up to 80V. The LTC4440 can also withstand and continue to function during 100V VIN transients. The powerful driver capability reduces switching losses in MOSFETs with high gate capacitances. The LTC4440's pull-up has a peak output current of 2.4A and its pull-down has an output impedance of 1.5Ω.

The LTC4440 features supply independent TTL/CMOS compatible input thresholds with 350mV of hysteresis. The input logic signal is internally level-shifted to the bootstrapped supply, which may function at up to 115V above ground.

The LTC4440 contains both high side and low side under-voltage lockout circuits that disable the external MOSFET when activated.

The LTC4440 is available in the low profile (1mm) SOT-23 and thermally enhanced 8-lead MSOP packages.

ParameterLTC4440LTC4440-5LTC4440A-5Max Operating TS80V60V80VAbsolute Max TS100V80V100VMOSFET Gate Drive8V to 15V4V to 15V4V to 15VVCC UV+6.3V3.2V3.2VVCC UV-6.0V3.04V3.04V

Features

Wide Operating VIN Range: Up to 80V

Rugged Architecture Tolerant of 100V VIN Transients

Powerful 1.5Ω Driver Pull-Down

Powerful 2.4A Peak Current Driver Pull-Up

7ns Fall Time Driving 1000pF Load

10ns Rise Time Driving 1000pF Load

Drives Standard Threshold MOSFETs

TTL/CMOS Compatible Inputs with Hysteresis

Input Thresholds are Independent of Supply

Undervoltage Lockout

Low Profile (1mm) SOT-23 (ThinSOT)[™] and Thermally Enhanced 8-Pin MSOP Packages

Application

Telecommunications Power Systems

Distributed Power Architectures

Server Power Supplies

High Density Power Modules

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



[LTM8045EX#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN