

Switching Voltage Regulators 42VIN Micropower No-Opto Isolated Flyback Converter with 65V/4.5A Switch

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT8302ES8E#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT8302/LT8302-3 is a monolithic micropower isolated flyback converter. By sampling the isolated output voltage directly from the primary-side flyback waveform, the part requires no third winding or opto-isolator for regulation. The output voltage is programmed with two external resistors and a third optional temperature compensation resistor. Boundary mode operation provides a small magnetic solution with excellent load regulation. Low ripple Burst Mode operation maintains high efficiency at light load while minimizing the output voltage ripple. A 3.6A, 65V DMOS power switch is integrated along with all the high voltage circuitry and control logic into a thermally enhanced 8-lead SO package.

The LT8302/LT8302-3 operates from an input voltage range of 3V to 42V and delivers up to 18W of isolated output power. The high level of integration and the use of boundary and low ripple burst modes result in a simple to use, low component count, and high efficiency application solution for isolated power delivery.

Features

3V to 42V Input Voltage Range

3.6A, 65V Internal DMOS Power Switch

Low Quiescent Current:

106 μ A in Sleep Mode

380 μ A in Active Mode

Quasi-Resonant Boundary Mode Operation at Heavy Load

Low Ripple Burst Mode® Operation at Light Load

Minimum Load < 0.5% (Typ) of Full Output

No Transformer Third Winding or Opto-Isolator Required for Output Voltage Regulation

Accurate EN/UVLO Threshold and Hysteresis

Internal Compensation and Soft-Start

Temperature Compensation for Output Diode

Output Short-Circuit Protection

Thermally Enhanced 8-Lead SO Package

AEC-Q100 Qualified for Automotive Applications

Application

Isolated Automotive, Industrial, Medical Power Supplies

Isolated Auxiliary/Housekeeping Power Supplies

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

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MSOP10



[LTC1966CMS8#PBF](#)

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MSOP-8P



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10MSOP



[LTM8045EY#PBF](#)

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[LT4295IUFD#PBF](#)

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