

LT8645SEV-2#PBF

Data Sheet

65V, 8A Synchronous Step-Down Silent Switcher with 2.5 µA Quiescent Current

Manufacturers <u>Analog Devices, Inc</u>

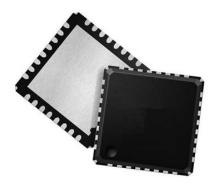
Package/Case 32-Lead LQFN (6mm x 4mm x 0.94mm w/ EP)

Product Type Power Management ICs

RoHS

Lifecycle

Please submit RFQ for LT8645SEV-2#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.



Images are for reference only

<u>RFO</u>

General Description

The LT8645S-2 synchronous step-down regulator features Silent Switcher architecture designed to minimize EMI emissions while delivering high efficiency at high switching frequencies. This performance makes the LT8645S-2 ideal for noise sensitive applications and environments.

The fast, clean, low-overshoot switching edges enable high efficiency operation even at high switching frequencies, leading to a small overall solution size. Peak current mode control with a 40ns minimum on-time allows high step-down ratios even at high switching frequencies.

Burst Mode® operation enables ultralow standby current consumption, pulse-skipping mode allows full switching frequency at lower output loads, or spread spectrum operation can further reduce EMI emissions.

Applications

Automotive and Industrial Supplies

General Purpose Step-Down

GSM Power Supplies

Features

Silent Switcher® Architecture

Ultralow EMI Emissions

Optional Spread Spectrum Modulation

High Efficiency at High Frequency

Up to 95% Efficiency at 1MHz, 12VIN to 5VOUT

Up to 94% Efficiency at 2MHz, 12VIN to 5VOUT

Wide Input Voltage Range: 3.4V to 65V

Ultralow Quiescent Current Burst Mode Operation

 $2.5\mu A$ IQ Regulating 12VIN to 3.3VOUT

Output Ripple < 10mVP-P

Fast Minimum Switch On-Time: 40ns

Low Dropout Under All Conditions: 60mV at 1A

Adjustable and Synchronizable: 200kHz to 2.2MHz

Peak Current Mode Operation

Output Soft-Start and Tracking

Small 32-Lead 6mm × 4mm LQFN Package

AEC-Q100 Qualification In Progress

Related Products



LT3763EFE
Analog Devices, Inc
TSSOP28



LTC4417IUF

Analog Devices, Inc

OFN-24



LTC1966CMS8#PBF

Analog Devices, Inc

MSOP-8P

Application

Automotive and Industrial Supplies

General Purpose Step-Down



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