

100V, 1A Synchronous Micropower Step-Down Regulator

Manufacturers	Analog Devices, Inc
Package/Case	20-Lead TSSOP w/ EP
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT8631IFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT8631 is a current mode PWM step-down DC/DC converter with internal synchronous switches that provide current for output loads up to 1A. The wide input range of 3V to 100V makes the LT8631 suitable for regulating power from a wide variety of sources, including automotive and industrial systems and 36V to 72V telecom supplies. Low ripple Burst Mode operation enables high efficiency operation down to very low output currents while keeping the output ripple below 10mVP-P. Resistor programmable 100kHz to 1MHz frequency range and synchronization capability enable optimization between efficiency and external component size. The soft-start feature controls the ramp rate of the output voltage, eliminating input current surge during start-up, while also providing output tracking. A power good flag signals when the output voltage is within $\pm 7.5\%$ of the regulated output. Undervoltage lockout can be programmed using the EN/UV pin. Shutdown mode reduces the total quiescent current to $< 5\mu\text{A}$. The LT8631 is available in a 20-lead TSSOP package with exposed pad for low thermal resistance and high voltage lead spacing.

Features

Ultrawide Input Voltage Range: 3V to 100V

Output Voltage Range: 0.8V to 60V

Internal Synchronous Switches

Low Ripple Burst Mode® Operation:

16µA IQ at 12VIN to 5VOUT Output Ripple <10mVP-P

Low Dropout: 99% Maximum Duty Cycle

Peak Current Mode Control

Fixed Frequency Operation: 100kHz to 1MHz

Synchronization Input

Programmable Undervoltage Lockout

Power Good Flag

Flexible Output Voltage Tracking

Short-Circuit Protection

Low Shutdown Current: 5µA

Tolerates Pin Open/Short Faults

Thermally Enhanced 20-Lead TSSOP with High Voltage Lead Spacing

Application

Automotive Supplies

Telecom Supplies

Distributed Supply Regulation

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

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10MSOP



[LTM8045EY#PBF](#)

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BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

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