

LT8631EFE#PBF

Data Sheet

Conv DC-DC 3V to 100V Synchronous Step Down Single-Out 0.8V to 60V 1A Micropower Automotive 16-Pin TSSOP EP Tube

Manufacturers	Analog Devices, Inc	and the second sec
Package/Case	TSSOP-20	Contrast.
Product Type	Power Management ICs	As
RoHS		
Lifecycle		Images are for reference only
Dlagge submit DEO fr	or I T8631EEE#DBE or Empil to us; calas@ourgen.com Wa will contact you	uin 12 hours PEO
Please submit RFQ for LT8631EFE#PBF or Email to us: 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 < 5µA. 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

Related Products



<u>LT3763EFE</u>

Analog Devices, Inc TSSOP28

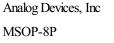


<u>LTC4417IUF</u>

Analog Devices, Inc QFN-24



LTC1966CMS8#PBF Analog Devices, Inc







LTC2990IMS#PBF

Analog Devices, Inc

LT1038CK

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Analog Devices, Inc

LTC3440EMS

MSOP10

Analog Devices, Inc 10MSOP

Automotive Supplies

Application

Telecom Supplies

Distributed Supply Regulation



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