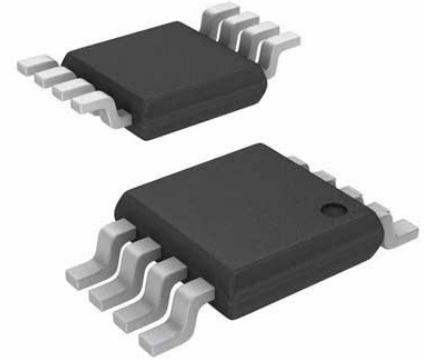


Conv DC-DC 4.5V to 45V Step Down Single-Out 0.8V to 45V 0.1A Automotive

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	MSOP-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC3631EMS8E#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC3631 is a high voltage, high efficiency step-down DC/DC converter with internal high side and synchronous power switches that draws only 12µA typical DC supply current at no load while maintaining output voltage regulation.

The LTC3631 can supply up to 100mA load current and features a programmable peak current limit that provides a simple method for optimizing efficiency in lower current applications. The LTC3631's combination of Burst Mode® operation, integrated power switches, low quiescent current, and programmable peak current limit provides high efficiency over a broad range of load currents.

With its wide 4.5V to 45V input range and internal overvoltage monitor capable of protecting the part from 60V surges, the LTC3631 is a robust converter suited for regulating a wide variety of power sources. Additionally, the LTC3631 includes a precise run threshold and a soft-start feature to guarantee that power system start-up is well-controlled in any environment.

The LTC3631 is available in the thermally enhanced 3mm × 3mm DFN and MS8E packages.

## Features

Wide Input Voltage Range: Operation from 4.5V to 45V

Overvoltage Lockout Provides Protection Up to 60V

Internal High Side and Low Side Power Switches

No Compensation Required

100mA Output Current

Low Dropout Operation: 100% Duty Cycle

Low Quiescent Current: 12 $\mu$ A

0.8V  $\pm$ 1% Feedback Voltage Reference

Adjustable Peak Current Limit

Internal and External Soft-Start

Precise RUN Pin Threshold with Adjustable Hysteresis

3.3V, 5V and Adjustable Output Versions

Only Three External Components Required for Fixed Output Versions

Low Profile (0.75mm) 3mm  $\times$  3mm DFN and Thermally-Enhanced MS8E Packages

## Application

4mA to 20mA Current Loops

Industrial Control Supplies

Distributed Power Systems

Portable Instruments

Battery-Operated Devices

Automotive Power Systems

## 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



### [LTM8045EY#PBF](#)

Analog Devices, Inc  
BGA40



### [LT4295IUFD#PBF](#)

Analog Devices, Inc  
28-WFQFN