

LT1765EFE#PBF

Data Sheet

Conv DC-DC 3V to 25V Synchronous Step Down Single-Out 1.2V to 20V 3A 16-Pin TSSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP16
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1765EFE#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The LT1765 is a 1.25MHz monolithic buck switching regulator. A high efficiency 3A, 0.09Ω switch is included on the die together with all the control circuitry required to construct a high frequency, current mode switching regulator. Current mode control provides fast transient response and excellent loop stability.

New design techniques achieve high efficiency at high switching frequencies over a wide operating voltage range. A low dropout internal regulator maintains consistent performance over a wide range of inputs from 24V systems to Li-Ion batteries. An operating supply current of 1mA improves efficiency, especially at lower output currents. Shutdown reduces quiescent current to 15µA. Maximum switch current remains constant at all duty cycles. Synchronization allows an external logic level signal to increase the internal oscillator into the range of 1.6MHz to 2MHz.

Full cycle-by-cycle current control and thermal shutdown are provided. High frequency operation allows the reduction of input and output filtering components and permits the use of chip inductors.

Features

3A Switch in a Thermally Enhanced 16-Lead TSSOP or 8-Lead SO Package

Constant 1.25MHz Switching Frequency

Wide Operating Voltage Range: 3V to 25V

High Efficiency 0.09Ω Switch

1.2V Feedback Reference Voltage

Uses Low Profile Surface Mount Components

Low Shutdown Current: 15µA

Synchronizable to 2MHz

Current Mode Loop Control

Constant Maximum Switch Current Rating at All Duty Cycles*

Available in 8-Lead SO and 16-Lead Thermally Enhanced TSSOP Packages

Application

DSL Modems

Portable Computers

Regulated Wall Adapters

Battery-Powered Systems

Distributed Power

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Related Products



LT3763EFE Analog Devices, Inc TSSOP28



LTC4417IUF Analog Devices, Inc QFN-24







LTM8045EY#PBF Analog Devices, Inc BGA40









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Analog Devices, Inc

LT1038CK

LTC3440EMS

Analog Devices, Inc MSOP10

LTC2990IMS#PBF

Analog Devices, Inc 10MSOP

LT4295IUFD#PBF

Analog Devices, Inc 28-WFQFN