🔉 ovaga

LTC3832EGN

Data Sheet

High Power Step-Down Synchronous DC/DC Controllers for Low Voltage Operation

Manufacturers	Analog Devices, Inc
Package/Case	SSOP-16
Product Type	Switch, DC to DC regulator, the controller
RoHS	
Lifecvcle	



Images are for reference only

Please submit RFQ for LTC3832EGN or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The LTC3832/LTC3832-1 are high power, high efficiency switching regulator controllers optimized for 3.3V-5V to 0.6V-3.xV step-down applications. A precision internal reference and feedback system provide $\pm 1\%$ output regulation over temperature, load current and line voltage variations. The LTC3832/LTC3832-1 use a synchronous switching architecture with N-channel MOSFETs. Additionally, the chip senses output current through the drain-source resistance of the upper N-channel MOSFET, providing an adjustable current limit without a current sense resistor.

The LTC3832/LTC3832-1 operate with an input supply voltage as low as 3V and with a maximum duty cycle of >91% over temperature. They include a fixed frequency PWM oscillator for low output ripple operation. The 300kHz free-running clock frequency can be externally adjusted or synchronized with an external signal from 100kHz to 500kHz. In shutdown mode, the LTC3832 supply current drops to $<10\mu$ A. The LTC3832-1 is the SO-8 version without current limit, frequency adjustment and shutdown functions.

Features

Application

VOUT as Low as 0.6V
High Power Switching Regulator Controller for 3.3V-5V to 0.6V-3.xV Step-Down Applications
No Current Sense Resistor Required
Low Input Supply Voltage Range: 3V to 8V
Maximum Duty Cycle >91% Over Temperature
All N-Channel External MOSFETs

Excellent Output Regulation: $\pm 1\%$ Over Line, Load and Temperature Variations

High Efficiency: Over 95% Possible

Adjustable or Fixed 2.5V Output (LTC3832)

Programmable Fixed Frequency Operation: 100kHz to 500kHz

External Clock Synchronization

Soft-Start

- Low Shutdown Current: <10µA
- Overtemperature Protection
- Available in SO-8 and SSOP-16 Packages

CPU Power Supplies

Multiple Logic Supply Generator

Distributed Power Applications

High Efficiency Power Conversion





Related Products



LT3430IFE Analog Devices, Inc TSSOP-16



LT1074IT7 Analog Devices, Inc TO-220-7



LT1158CSW Analog Devices, Inc SOP16



LTC1625CS Analog Devices, Inc SOIC-16





LT1074HVCT7



LTC1625IS





LTC1628CG

