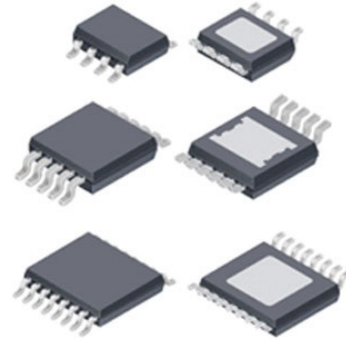


LED Driver 18Segment 9V/12V/15V/18V/24V

Manufacturers	Analog Devices, Inc
Package/Case	MSOP16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT3756EMSE-2#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3756, LT3756-1 and LT3756-2 are DC/DC controllers designed to operate as a constant-current source for driving high current LEDs. They drive a low side external N-channel power MOSFET from an internal regulated 7.15V supply. The fixed frequency, current-mode architecture results in stable operation over a wide range of supply and output voltages. A ground referenced voltage FB pin serves as the input for several LED protection features, and also makes it possible for the converter to operate as a constant-voltage source. A frequency adjust pin allows the user to program the frequency from 100kHz to 1MHz to optimize efficiency, performance or external component size.

The LT3756/LT3756-1/LT3756-2 sense output current at the high side of the LED string. High side current sensing is the most flexible scheme for driving LEDs, allowing boost, buck mode or buck-boost mode configuration. The PWM input provides LED dimming ratios of up to 3000:1, and the CTRL input provides additional analog dimming capability.

Features

3000:1 True Color PWM™ Dimming

Wide Input Voltage Range: 6V to 100V

Output Voltage Up to 100V

Constant-Current and Constant-Voltage Regulation

100mV High Side Current Sense

Drives LEDs in Boost, Buck Mode, Buck-Boost Mode, SEPIC or Flyback Topology

Adjustable Frequency: 100kHz to 1MHz

Open LED Protection

Programmable Undervoltage Lockout with Hysteresis

Improved Open LED Status Pin (LT3756-2)

Frequency Synchronization (LT3756-1)

PWM Disconnect Switch Driver

CTRL Pin Provides Analog Dimming

Low Shutdown Current: <1μA

Programmable Soft-Start

Thermally Enhanced 16-Lead QFN (3mm × 3mm) and MSOP Packages

Application

High Power LED Applications

Current Limited Constant Voltage Applications

Battery Charging

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