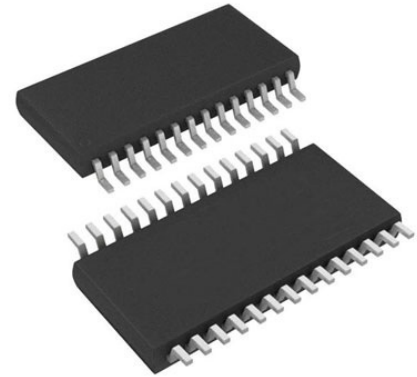


Switching Battery Charger Automotive 28-Pin TSSOP EP Tube

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP-28
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LT3796EFE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3796/LT3796-1 are DC/DC controllers designed to regulate a constant-current or constant-voltage and are ideal for driving LEDs. The fixed frequency and current mode architecture result in stable operation over a wide range of supply and output voltages. Two ground referred voltage FB pins serve as the input for several LED protection features, and also allow the converter to operate as a constant-voltage source. The LT3796/LT3796-1 feature a programmable threshold output current sense amplifier with rail-to-rail common mode range. A separate high side amplifier is gain configurable with two resistors and can be used to regulate a second current or a voltage in combination with one of the FB pins. The PWM input provides LED dimming ratios of up to 3000:1.

The LT3796-1 is optimized for a second output current regulation loop that can be enabled/disabled with a PMOS switch, either to drive a second LED string or to extend analog dimming range.

Features

3000:1 True Color PWM™ Dimming

Wide Input Voltage Range: 6V to 100V

Current Monitoring Up to 100V

High Side PMOS Disconnect and PWM Switch Driver

Constant-Current and Constant-Voltage Regulation

Dual Current Sense Amplifiers with Reporting

C/10 Detection for Battery and SuperCap Charging

Linear Current Sense Threshold Programming

Short-Circuit Protection

Adjustable Frequency: 100kHz to 1MHz

Frequency Synchronization (LT3796)

Independent Top Gate Enable Pin (LT3796-1)

Programmable Open LED Protection with VMODE Flag

Programmable Undervoltage Lockout with Hysteresis

Soft-Start with Programmable Fault Restart Timer

Available in 28-Lead TSSOP Package

Application

High Power LED, High Voltage LED, Dual String

Battery and SuperCap Chargers

Accurate Current Limited Voltage Regulators

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc

BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc

28-WFQFN