

IC LED DRVR HP CONS CURR 20TSSOP

Manufacturers	Analog Devices, Inc
Package/Case	TSSOP20
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT3475IFE-1#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT3475 is a dual step-down DC/DC converter designed to operate as a constant-current source. An internal sense resistor monitors the output current allowing accurate current regulation ideal for driving high current LEDs. The high side current sense allows grounded cathode LED operation. High output current accuracy is maintained over a wide current range, from 50mA to 1.5A, allowing a wide dimming range. Unique PWM circuitry allows a dimming range of 3000:1, avoiding the color shift normally associated with LED current dimming.

The high switching frequency offers several advantages, permitting the use of small inductors and ceramic capacitors. Small inductors combined with the LT3475's 20 lead TSSOP surface mount package save space and cost versus alternative solutions. The constant switching frequency combined with low-impedance ceramic capacitors result in low, predictable output ripple.

With its wide input range of 4V to 36V, the LT3475 regulates a broad array of power sources. A current mode PWM architecture provides fast transient response and cycle-by-cycle current limiting. Frequency foldback and thermal shutdown provide additional protection.

Features

True Color PWM™ Delivers Constant Color with 3000:1 Dimming Range

Wide Input Range: 4V to 36V Operating, 40V Maximum

Accurate and Adjustable Control of LED Current from 50mA to 1.5A

High Side Current Sense Allows Grounded Cathode LED Operation

Open LED (LT3475) and Short Circuit Protection

LT3475-1 Drives LED Strings Up to 25V

Accurate and Adjustable 200kHz to 2MHz Switching Frequency

Anti-Phase Switching Reduces Ripple

Uses Small Inductors and Ceramic Capacitors

Available in the Compact 20-Lead TSSOP Thermally Enhanced Surface Mount Package

Application

Automotive and Avionic Lighting

Architectural Detail Lighting

Display Backlighting

Constant-Current Sources

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

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TO-3



[LTC3440EMS](#)

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MSOP10



[LTC2990IMS#PBF](#)

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10MSOP



[LT4295IUFD#PBF](#)

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