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## **36V, 2A Monolithic Synchronous Step-Down LED Driver with Silent Switcher Topology Minimizes EMI Concerns**

MILPITAS, CA & NORWOOD, MA – July 11, 2017 – Analog Devices, Inc., which recently acquired Linear Technology Corporation, announces the [LT3932](#), a monolithic, synchronous, step-down DC/DC converter with internal 36V, 2A power switches and an internal PWM generator. Its fixed frequency, peak current mode control accurately regulates current within  $\pm 1.5\%$  for strings of up to 2A LEDs. Its integrated PWM generator offers a 128:1 dimming ratio. If dimming ratios of up to 5000:1 are required, the LT3932 and an external PWM generator can accommodate these applications. The LT3932's 3.6V to 36V input voltage range is ideal for a wide variety of applications, including automotive, industrial and architectural lighting. The combination of its Silent Switcher<sup>®</sup> topology and spread spectrum frequency modulation minimizes EMI concerns. The LT3932 can drive up to eight 2A white LEDs from a nominal 32V input, delivering in excess of 50 watts.

The LT3932 can deliver efficiencies of 93% while switching at 2MHz, eliminating the need for external heat sinking and offering a tiny, compact solution footprint. Internal open/short LED protection and fault indication offers added reliability. The LT3932's switching frequency is programmable from 200kHz to 2MHz or it can be synchronized to an external clock signal. Combined with a thermally enhanced 4mm x 5mm QFN package, the LT3932 offers a very compact high power LED driver solution. Other features include accurate LED current sense with a monitor output, 99.9% duty cycle operation and programmable UVLO.

The LT3932EUFD is available in a thermally enhanced 28-lead 4mm x 5mm QFN package. Three temperature grades are available, with operation from  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$  (junction) for the extended, industrial grades and a high temperature grade of  $-40^{\circ}\text{C}$  to  $150^{\circ}\text{C}$ . Pricing starts at \$3.95 each in 1,000-piece quantities and all versions are available from stock. For more information, go to [www.linear.com/product/LT3932](http://www.linear.com/product/LT3932).

**Photo Caption:** 36V, 2A LED Driver with Silent Switcher<sup>®</sup> Topology & Internal PWM Generator

## Summary of Features: LT3932


- $\pm 1.5\%$  LED Current Regulation
- $\pm 1.2\%$  Output Voltage Regulation
- 5000:1 PWM Dimming at 100Hz
- 128:1 Internal PWM Dimming
- Spread Spectrum Frequency Modulation
- Silent Switcher<sup>®</sup> Architecture for Low EMI
- 3.6V to 36V Input Voltage Range
- 0V to 36V LED String Voltage
- 2A, 36V Internal Switches
- 200kHz to 2MHz with SYNC Function
- 99.9% Maximum Duty Cycle
- Analog or Duty Cycle LED Current Control
- Open/Short LED Protection & Fault Indication
- Accurate LED Current Sense with Monitor Output
- Programmable UVLO
- Thermally Enhanced 28-Lead (4mm  $\times$  5mm) QFN

Pricing shown is for budgetary use only and may differ due to local duties, taxes, fees and exchange rates.

**Analog Devices just got more Powerful. On March 10, Analog Devices acquired Linear Technology, creating the premier high-performance analog company. More info at <http://lt.linear.com/07c>**

### About Analog Devices

Analog Devices (NASDAQ: ADI) is the leading global high-performance analog technology company dedicated to solving the toughest engineering challenges. We enable our customers to interpret the world around us by intelligently bridging the physical and digital with unmatched technologies that sense, measure, power, connect and interpret. Visit <http://www.analog.com>

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### Press Contacts:

#### North America / Worldwide

John Hamburger, Director Marketing  
Communications  
[jhamburger@linear.com](mailto:jhamburger@linear.com)  
Tel: 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager  
[ddickinson@linear.com](mailto:ddickinson@linear.com)  
Tel: 408-432-1900 ext 2233

#### UK & Nordic

Alan Timmins  
[a.timmins@ntlworld.com](mailto:a.timmins@ntlworld.com)  
Tel: +44-1-252-629937