



36V, 2A Monolithic Synchronous Step-Up Silent Switcher LED Driver

MILPITAS, CA – September 19, 2016 – The [LT3922](#) is a monolithic, synchronous, step-up DC/DC converter with internal 40V, 2A power switches and an internal PWM generator. Its fixed frequency peak current mode control accurately regulates current within $\pm 2\%$ for a string of LEDs up to 34V. Its integrated PWM generator offers up to 128:1 dimming ratio. If dimming ratios of up to 5,000:1 are required, the LT3922 and an external PWM generator can accommodate these applications. The LT3922's 2.8V to 36V input voltage range is ideal for a wide range of applications, including automotive, industrial and architectural lighting. The combination of a Silent Switcher[®] topology and spread spectrum frequency modulation minimizes EMI concerns. The LT3922 can drive up to 34V of 350mA white LEDs from an automotive input, delivering in excess of 10 watts.

The LT3922 incorporates a high side current sense, enabling its use in boost, buck mode or boost-buck topologies. It can deliver efficiencies of 93% in the boost topology while switching at 2MHz, offering a tiny and compact solution footprint. Internal LED short-circuit protection enables added reliability. A frequency adjust pin permits the user to program the frequency between 200kHz and 2MHz. Combined with a thermally enhanced 4mm x 5mm QFN package, the LT3922 offers a very compact high power LED driver solution. Other features include frequency synchronization, open and short LED protection and fault indication, programmable UVLO and OVLO, and an accurate LED current monitor.

The LT3922EUFD is available in a thermally enhanced 28-lead 4mm x 5mm QFN package. Three temperature grades are available, with operation from -40°C to 125°C (junction) for the extended, industrial grades, and a high temperature grade of -40°C to 150°C . Pricing starts at \$3.95 each in 1,000-piece quantities and all versions are available from stock. For more information, visit www.linear.com/product/LT3922.


Photo Caption: 36V, 2A LED Driver with Silent Switcher Topology & Internal PWM Generator**Summary of Features: LT3922**

- $\pm 2\%$ LED Current Regulation
- $\pm 2\%$ Output Voltage Regulation
- 5,000:1 PWM Dimming at 100Hz & 128:1 Internal PWM Dimming
- Spread Spectrum Frequency Modulation
- Silent Switcher® Architecture for Low EMI
- 2.8V to 36V Input Voltage Range
- Operates in Boost, Buck Mode & Buck-Boost Mode
- 200kHz to 2MHz with SYNC Function
- CTRL Pin with Analog or Duty Cycle LED Current Control
- Open & Short Fault Detection
- Shorted LED Protection
- Accurate LED Current Sense with Monitor Output
- Programmable UVLO & OVLO
- Thermally Enhanced 28-Lead 4mm × 5mm QFN Package

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

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module® subsystems, and wireless sensor network products. For more information, visit www.linear.com

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