

LTC News for Immediate Release

For more information, tel. 408-432-1900

John Hamburger, Dir., Mktg Communications, ext. 2419

Doug Dickinson, Media Relations Mgr., ext. 2233

Web Site: www.linear.com

**Inductorless Multi-Mode LED Charge Pump
Delivers 500mA Output Current With Up to 94% Efficiency**

MILPITAS, CA – August 18, 2005 – Linear Technology Corporation announces the LTC3214, a fractional charge pump, high current white LED driver that delivers up to 500mA of LED current. Its high efficiency multi-mode architecture automatically switches between 1x, 1.5x or 2x boost modes monitoring the voltage across the LED current source and switching modes only when I_{LED} dropout is detected. This enables the LTC3214 to maximize efficiency (up to 94%) throughout the entire Li-Ion operating range. A 900kHz switching frequency and a low external parts count (two flying capacitors, two programming resistors and two bypass capacitors at V_{IN} and CPO) provide a very tiny footprint and cost-effective solution, ideally suited for video and flash applications in camera phones and other portable lighting applications.

The LTC3214 employs built-in soft-start circuitry which prevents excessive inrush current during start-up. An ultralow dropout current source maintains accurate LED current as the input voltage approaches the LED forward voltage. The LTC3214 is available in a low profile (0.75mm), 3mm x 3mm 10-lead DFN package.

The LTC3214EDD is available from stock in a DFN-10 package. Pricing starts at \$1.65 each for 1,000-piece quantities.

(more...)

Summary of Features: LTC3214

- High Efficiency Operation: 1x, 1.5x or 2x Boost Modes with Automatic Mode Switching
- Ultralow Dropout I_{LED} Current Control
- Output Current up to 500mA
- Low Noise Constant Frequency Operation
- Tiny Application Circuit (All Components <1mm Profile)
- 3mm x 3mm 10-Lead DFN Package

COMPANY BACKGROUND: Linear Technology Corporation was founded in 1981 as a manufacturer of high performance linear integrated circuits. Linear Technology products include operational, instrumentation and audio amplifiers; voltage regulators, power management devices, DC-DC converters and voltage references; comparators; monolithic filters; communications interface circuits; one-chip data acquisition sub-systems; pulse-width modulators and sample-and-hold devices; and high frequency devices. Applications for Linear Technology's high performance circuits include wireless and broadband telecommunications infrastructure, cellular telephones, networking products and satellite systems, notebook and desk top computers, computer peripherals, video/multimedia, industrial and medical instrumentation, automotive electronics, factory automation, process control, military and space systems, and high-end consumer products including digital cameras, MP3 players and other electronic products.

For more information, contact:

Doug Dickinson, Media Relations Manager

Linear Technology Corporation


1630 McCarthy Boulevard

Milpitas, CA 95035-7417

ddickinson@linear.com

408-432-1900

READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site: <http://www.linear.com>

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