

LTC News for Immediate Release

For more information, tel. 408-432-1900
Doug Dickinson, Media Relations Mgr., ext. 2233
John Hamburger, Dir., Mktg Comm., ext. 2419
www.linear.com

Charger Controller Charges Any Size Capacitor

MILPITAS, CA – February 16, 2006 – Linear Technology Corporation announces the LT3750, a flyback controller designed to rapidly charge large capacitors to voltages as high as 1,000V. The LT3750 drives an external high current N-Channel MOSFET and can charge a 100uF capacitor to 300V in less than 300ms making it ideal for applications such as professional photoflash systems, RF security, inventory control systems and specialized high voltage power supplies. Its input voltage range of 3V to 24V enables it to operate from a variety of power sources and its patented boundary mode control scheme minimizes transition losses and reduces transformer size. Packaged in a tiny MSOP-10, it provides a very compact high voltage/current capacitor charger solution.

The LT3750's primary-side sensing topology eliminates the need for an external output voltage divider. It uses a single high current N-Channel MOSFET and delivers charging efficiencies above 90%. A low 78mV current sense accurately limits peak switch current while optimizing efficiency. Output voltages can be easily adjusted using the transformer turns ratio and two external resistors. Additional features include a charge pin, offering full control of the LT3750 to the user and a DONE pin that indicates when the capacitor has reached its programmed value and has stopped charging.

The LT3750EMS is available from stock in a 10-Lead MSOP-10 package. 1,000-piece pricing starts at \$3.50 each.

Summary of Features: LT3750EMS

- Charges Any Size Capacitor
- Easily Adjustable Output Voltage
- Drives High Current N-Channel MOSFETs
- Primary-Side Sense — No Output Voltage Divider Necessary
- Wide Input Range: 3V to 24V
- Drives Gate to VCC – 2V
- Available in 10-Lead MS Package

Company Background

Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P 500 index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems. For more information, visit www.linear.com

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>

Note: LT, LTC, and  are registered trademarks of Linear Technology Corp.