

***LTC News for Immediate Release***

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**750kHz, 1.2A ( $I_{OUT}$ ) 36V Step-Down DC/DC  
Converter in 2mm x 3mm DFN Package**

MILPITAS, CA – March 13, 2006 – Linear Technology Corporation announces the LT3493, a current mode PWM step-down DC/DC converter with an internal 1.4A power switch, packaged in a tiny 6-pin 2mm x 3mm DFN. Its wide input range of 3.6V to 36V and capability of withstanding 40V transients makes the LT3493 suitable for regulating power from a wide variety of sources, including unregulated wall transformers, 24V industrial supplies and automotive batteries. For automotive applications, it can easily operate with sub-4V inputs which is essential for automotive “cold crank” requirements. Its 750kHz operating frequency allows the use of tiny, low cost inductors and ceramic capacitors, resulting in low, predictable output ripple.

The LT3493’s low  $V_{CESAT}$  (330mV @1A) internal switch offers efficiencies as high as 89% and the device can generate outputs as low as 0.78V. Internal cycle-by-cycle current limit provides protection against shorted outputs while soft-start eliminates input current surge during start up. The low current (<2uA) shutdown provides easy power management in battery-powered systems.

The LT3493EDCB is available from stock in a thermally enhanced 2mm x 3mm DFN-6 package. A higher temperature grade “I” version, the LT3493IDCB, is also available from stock. Pricing starts at \$2.65 each and \$3.18 each, respectively, for 1,000-piece quantities.

**Photo Caption:** 36V, 1.2A ( $I_{OUT}$ ), 750kHz Step-Down Switching Regulator

### **Summary of Features: LT3493**

- Wide Input Range: 3.6V to 36V Operating, 40V Maximum
- Up to 1.2A Output Current
- Fixed Frequency Operation: 750kHz
- Output Adjustable Down to 780mV
- Short-Circuit Robust
- Uses Tiny Capacitors and Inductors
- Soft-Start
- Internally Compensated
- Low Shutdown Current: <2 $\mu$ A
- Low  $V_{CESAT}$  Switch: 330mV at 1A
- Thermally Enhanced, Low Profile DFN 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](http://www.linear.com)

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