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5A DC/DC Converter Generates Either a Positive or a Negative Regulated Voltage

MILPITAS, CA – June 15, 2010 – Linear Technology Corporation announces the [LT3957](#), a highly versatile DC/DC converter for boost, flyback, SEPIC and inverting power supply applications. This device operates over an input voltage range of 3V to 40V, has an onboard 5A/40V power switch and achieves efficiencies up to 96%, making it well suited for industrial, automotive, medical and telecom applications.

The LT3957 can generate either a positive or negative regulated output voltage with its two internal voltage feedback error amplifiers and reference voltages. One set is for positive output voltages and the other is for negative output voltages, both off a single feedback pin. With a programmable fixed or synchronizable operating frequency from 100kHz to 1MHz, designers can choose a wide range of inductors and capacitors to optimize size, performance and cost. Its current-mode control results in stable operation over a wide range of supply and output voltages. The device supports designs using only ceramic capacitors, enabling a smaller solution size. Additional features include programmable soft-start, adjustable input undervoltage lockout, as well as output overvoltage and overcurrent protection.

The LT3957 operates from a -40°C to 125°C temperature range and is offered in a 5mm x 6mm QFN-36 package with additional pin spacing to support high voltage operation. The 1000-piece price starts at \$2.95 each. For more information, visit <http://www.linear.com/pr/3957>.


Photo Caption: Boost, Flyback, SEPIC & Inverting DC/DC Converter

Summary of Features: LT3957

- For Boost, Flyback, SEPIC & Inverting Applications
- Wide Input Operating Voltage: 3V to 40V
- Onboard 5A/40V Power Switch
- Positive or Negative Output Voltage Setting with a Single Feedback Pin
- Selectable Fixed 100kHz to 1MHz Operating Frequency
- Synchronizable to an External Clock
- Programmable Soft Start
- True Current-Mode Control
- Additional Pin to Pin IC Spacing
- Output Overvoltage & Overcurrent Protection
- Programmable Input Undervoltage Lockout with Hysteresis

About Linear Technology

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, uModule[®] products, 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.

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