40V, 200mA Micropower Step-Down DC/DC with $T_{J(MAX)}$ = 150˚C

MILPITAS, CA – April 23, 2007 – Linear Technology announces the H-grade version of the LT3470. The LT3470 is a 40V micropower step-down DC/DC converter with integrated boost and catch diodes in a 2mm x 3mm DFN package. It operates from input voltages of 4V to 40V, delivering up to 200mA of output current. The LT3470 is optimized for 2-cell Li-Ion, wall adapter or automotive power sources. Burst Mode® operation reduces quiescent current to only 26uA, making it ideal for applications such as always-on automotive systems. The entire solution footprint is only 50mm^2, making it ideal for space constrained applications.

The H-grade version operates up to a junction temperature of 150˚C, compared to the E- and I-grade maximum junction temperature of 125°C. All electrical specifications are identical for the E-, I- and H-grade versions. The H- grade parts are both tested and guaranteed to the maximum junction temperature of 150˚C. They are well suited for automotive and industrial applications, which are subjected to high ambient temperatures.

The LT3470HDDB is available from stock in a 2mm x 3mm DFN-8 package. Pricing starts at $3.07 each for 1,000 piece quantities.

Photo Caption: 40V, 200mA Step-Down DC/DC Converter w/ T_{JMAX} = 150°C

Summary of Features: LT3470H

- Low Quiescent Current: 26uA at $12V_{IN}$ to $3.3V_{OUT}$
- Integrated Boost and Catch Diodes
- Input Range: 4V to 40V
- Low Output Ripple: <10mV
- <1uA in Shutdown Mode
- 200mA Output Current
- Hysteretic Mode Control
  - Low Ripple Burst Mode® Operation at Light Loads
  - Continuous Operation at Higher Loads
- Solution Size as Small as $50mm^2$
- 8-pin 2mm x 3mm DFN Package

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, 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

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