



## **60V, 500mA ( $I_{sw}$ ) 200kHz Step-Down DC/DC Converter Draws only 100uA Quiescent Current & Features a 140°C Maximum Junction Temperature**

MILPITAS, CA – April 18, 2007 – Linear Technology announces the H-Grade version of the LT3437 step-down switching regulator. The device operates from continuous inputs of 3.3V to 60V and withstands transients up to 80V, making it ideal for automotive and telecom applications. Its 500mA internal switch delivers up to 400mA of continuous output current at voltages as low as 1.25V. Burst Mode<sup>®</sup> operation reduces no-load quiescent current to less than 100uA, maximizing battery run-time for always on applications.

The H Grade version is tested and guaranteed to a junction temperature of 140°C, compared to the E and I Grade versions, which are specified for 125°C maximum junction temperature. All electrical specifications are identical for the E-, I- and H-grade versions. The LT3437 H-grade version is ideal for automotive and industrial applications which are subjected to high ambient temperatures.

The LT3437HFE is available from stock in a TSSOP-16E package. Pricing starts at \$3.00 each for 1,000 piece quantities.

**Photo Caption:** 60V Step-Down DC/DC Converter with  $T_{JMAX} = 140^{\circ}\text{C}$

## Summary of Features: LT3437H

- Wide Input Range: 3.3V to 60V
- Transient Protection to 80V
- 500mA Peak Switch Current
- Burst Mode® Operation: 100uA Quiescent Current
- Low Shutdown Current:  $I_Q < 1\mu A$
- Defeatable Burst Mode Operation
- 200kHz Switching Frequency
- Saturating Switch Design: 0.8Ohm On-Resistance
- Peak Switch Current Maintained Over Full Duty Cycle Range
- 1.25V Feedback Reference Voltage
- Easily Synchronizable
- Soft-Start Capability
- Thermally Enhanced TSSOP-16E 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](http://www.linear.com)

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### Press Contacts:

John Hamburger, Director Marketing Communications  
[jhamburger@linear.com](mailto:jhamburger@linear.com)  
Tel 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager  
[ddickinson@linear.com](mailto:ddickinson@linear.com)  
408-432-1900 ext 2233