



34V, 2A (I_{sw}), 2.8MHz Micropower Step-Down DC/DC Converter Offers 150°C Maximum Junction Temperature Operation

MILPITAS, CA – August 20, 2008 – Linear Technology announces the H-Grade version of the LT3481. The LT3481 is a 34V (36V_{MAX}), BurstMode[®], step-down switching regulator that maintains quiescent current under 50uA. The “H” Grade version operates up to a junction temperature of 150°C, compared to the “E” and “I” Grade versions’ 125°C maximum junction temperature. All electrical specifications are identical for the E, I and H. The H Grade parts are tested and guaranteed to the maximum junction temperature of 150°C. They are ideal for automotive, industrial and harsh environment applications that are subject to high ambient temperatures.

The LT3481 operates within a V_{IN} range of 3.3V to 34V(36V_{MAX}), making ideal for load dump or cold-crank conditions found in automotive applications. Its 3.2A internal switch delivers up to 2A of continuous output current to voltages as low as 1.25V. Its 50uA of quiescent current is ideal for “always on” applications such as automotive security systems, which require a very long battery life.

The LT3481HDD is available from stock in a 10-lead 3mm x 3mm DFN package whereas the LT3481HMSE is available in a thermally enhanced MSOP-10 package. Pricing for both versions starts at \$4.15 each for 1,000 piece quantities.

Photo Caption: 150°C, 34V, 2A (I_{OUT}), 2.8MHz Step-Down Switching Regulator with $I_Q < 50\mu A$


Summary of Features: LT3481H

- Maximum Junction Temperature of 150°C
- Wide Input Range: 3.6V to 34V Operating, 36V Maximum
- 2A Maximum Output Current
- Low Ripple Burst Mode Operation 50uA I_Q at 12V_{IN} to 3.3V_{OUT}:
- Output Ripple < 15mV
- Adjustable Switching Frequency: 300kHz to 2.8MHz

- Low Shutdown Current: $I_Q < 1\mu A$
- Integrated Boost Diode
- Power Good Flag
- Saturating Switch Design: 0.18 Ohm On-Resistance
- 1.265V Feedback Reference Voltage
- Output Voltage: 1.265V to 20V
- Soft-Start Capability
- Synchronizable Between 275kHz to 475kHz
- Small 10-Pin Thermally Enhanced MSOP & (3mm x 3mm) DFN Packages

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. For more information, visit www.linear.com.

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