

LTC News for Immediate Release

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**400mA MicroPower Synchronous Step-up Regulators with
Output Disconnect in an SC70**

MILPITAS, CA – October 18, 2005 – Linear Technology announces the LTC3525-3.3 and LTC3525-5, 400mA synchronous step-up DC/DC converters with true output disconnect and inrush current limiting in SC70 packages. They operate from an input voltage range of 1V to 4.5V, making them ideal for single- and multicell alkaline/NiCd/NiMH, as well as Li-Ion applications. The LTC3525-3.3 offers a fixed 3.3V output whereas the LTC3525-5 has a fixed 5V output. The LTC3525-3.3 can deliver up to 140mA of continuous output current from dual AA alkaline cells. The LTC3525-5 can deliver up to 175mA at 5V from a 3V input. Both devices use synchronous rectification to enable efficiencies of up to 95%. Their Burst Mode[®] operation lowers quiescent current to only 7uA, providing maximum battery run-time in handheld applications. The combination of an SC70 package plus only 3 tiny externals provides small solution footprints as required in space constrained applications.

The LTC3525-3.3 and LTC3525-5 both incorporate internal switches with an $R_{DS(ON)}$ of only 0.5 Ohm (N-Channel) and 0.8 Ohm (P-Channel). Combined with their unique Adaptive Power Control switching topology, they deliver efficiencies greater than 90% to loads varying from 1mA to 100mA. Both parts offer output disconnect and inrush current limiting to restrict the current during start-up, minimizing surge currents seen by the input supply. Additional features include anti-ringing control, short-circuit protection and thermal protection. The LTC3525-3.3 and LTC3525-5 deliver ideal solutions for boost applications requiring up to 150mA of output current, and where a small solution size and maximum battery run-time are defining factors.

Both the LTC3525ESC6-3.3 and the LTC3525ESC6-5 are available from stock in a 6-Lead SC70 package. 1,000-piece pricing starts at \$1.75 each.

(more...)

Summary of Features: LTC3525ESC6-3.3/5

- Up to 95% Efficiency
- Output Disconnect & Inrush Current Limit
- Fixed Output Voltages of 3.3V or 5V
- Delivers 60mA at 3.3V from a 1V Input, or 140mA at 3.3V from a 1.8V Input
- Delivers 175mA at 5V from a 3V Input
- Burst Mode Operation: IQ = 7uA
- Only Three External Components
- 1V to 4.5V Input Range
- <1uA Shutdown Current
- Short-Circuit and Overtemperature Protection
- Very Low Solution Footprint Profile of 1mm
- Tiny 6-Pin SC-70 Package

About Linear Technology Corporation

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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