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Single Supply Undervoltage and Overvoltage Monitor Provides Precise and Space Saving Solution

MILPITAS, CA – December 4, 2006 – Linear Technology Corporation introduces the LTC2912, a single undervoltage (UV) and overvoltage (OV) monitor for space-conscious applications. Housed in a tiny 3mm x 2mm DFN package, the voltage monitoring inputs of the LTC2912 include filtering to reject brief glitches, thus ensuring reliable reset operation without false or noisy triggering. Programmed by external resistors, the UV and OV trip thresholds have a guaranteed $\pm 1.5\%$ threshold accuracy of monitored voltages over temperature and give users the flexibility to tailor the IC to their specific voltage levels.

The LTC2912 features an adjustable timer to define the duration of the UV and OV reset outputs, which function independently of each other. The IC is offered in three output configurations: LTC2912-1 has a latch control for the OV output; the LTC2912-2 has an OV and UV output disable for margining applications; the LTC2913-3 is identical to the LTC2912-1 but provides a noninverting OV output. While the LTC2912 operates directly from 2.3V to 6V supplies, an internal shunt regulator allows for operation with higher voltages such as 12V, 24V and 48V, making it a perfect fit for systems with various voltage levels that also require reliable and accurate voltage monitoring, such as telecom/network equipment, storage servers, desktop and notebook computers. In addition to the single UV and OV monitor, dual and quad versions, the LTC2913 and LTC2914 respectively, are also available.

The LTC2912 is offered in 8-lead ThinSOT™ and 3mm x 2mm DFN packages and is specified over the commercial and industrial temperature ranges. The LTC2912 is priced at \$1.45 each for 1,000 piece quantities.

Photo Caption: Single UV/OV Monitor

Summary of Features: LTC2912

- Monitors Single Voltage
- Adjustable UV and OV Trip Values
- Guaranteed Threshold Accuracy: $\pm 1.5\%$
- Power Supply Glitch Immunity
- Adjustable Reset Timeout
- 40uA Quiescent Current
- Open-Drain OV and UV Outputs
- Available in 8-Lead ThinSOT and 3mm x 2mm 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, 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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