

LTC News for Immediate Release

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**1.5A VLDO™ Operates Down to $V_{IN} = 1.2V$ and
Features 100mV Dropout**

MILPITAS, CA – May 5, 2005 – Linear Technology Corporation announces the LTC3026, a 1.5A very low dropout (VLDO™) linear regulator with input voltage capability down to 1.14V. Featuring adjustable ultra-low output voltage operation from 0.4V to 2.6V, it also maintains extremely low dropout voltage of only 100mV while delivering up to 1.5A of output current. To allow operation at low input voltages, the LTC3026 includes an integrated boost converter that provides the necessary headroom for the internal LDO circuitry. This feature ensures users the flexibility of lower input voltage capability if an external 5V rail is not available in the system. The LTC3026's high supply rejection capability enables it to be a highly effective post-regulator for switching power supplies. Other key applications include high-efficiency linear regulation from low input voltage 2.5V/1.8V/1.5V rails, plus powering low-voltage, high-current digital ICs such as microcontrollers, microprocessors, PLDs/FPGAs and DSPs.

The LTC3026 regulator optimizes stability and transient response with low ESR, ceramic output capacitors as small as 10uF. Its internal protection circuitry includes soft-start, current limiting, thermal limiting, and reverse-current protection. Its shutdown disconnect feature disconnects both V_{IN} and V_{BST} from the output load in shutdown.

The LTC3026EDD and LTC3026EMSE are available from stock in the 10-lead DFN (3mm x 3mm x 0.75mm) package and 10-lead MSOP package respectively. Both packages offer thermally efficient, highly compact solution footprints. 1,000 piece pricing starts at \$2.20 each.

(more...)

Summary of Features: LTC3026

- V_{IN} Range:
 - 1.14V to 3.5V (with Boost enabled)
 - 1.14V to 5.5V (with External 5V Boost)
- Low Dropout Voltage: 100mV Typical
- Adjustable Output Range: 0.4V to 2.6V
- Output Current: up to 1.5A
- Shutdown Disconnects Load from V_{IN} and V_{BST}
- Low Operating Current: $I_Q = 950\mu A$ at $V_{IN} = 1.5V$
- Low Shutdown Current: $I_Q = 0.1\mu A$, $I_{BST} = 0.1\mu A$
- Stable with Low ESR, Ceramic Output Capacitors (10uF Minimum)
- Over-Temperature Protected
- 10-Lead DFN (3mm x 3mm) Package
- 10-Lead MSOP package

COMPANY BACKGROUND: Linear Technology Corporation was founded in 1981 as a manufacturer of high performance linear integrated circuits. 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.

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