



250mA LDO Withstands 80V Input & Operates -55°C to +125°C

MILPITAS, CA – February 26, 2009 – Linear Technology Corporation announces a new high reliability (MP) grade, wider temperature range version of the LT3013, a micropower LDO with input voltage capability up to 80V. The MP grade device is offered in the TSSOP package and operates from -55°C to +125°C junction temperature, featuring low dropout voltage of only 400mV while delivering up to 250mA of output current. The wide V_{IN} capability of 3.3V to 80V and adjustable output from 1.24V up to 60V makes it ideal for automotive, avionics, 48V telecom backup supplies and industrial control applications. With its very low quiescent current of 65uA (operating) and 1uA (shutdown), the LT3013 improves battery life in battery-powered memory “keep alive” systems that require extended run times. The LT3013’s PGood flag feature is programmable and indicates output regulation.

For high voltage applications that require large input-to-output differentials, the LT3013 offers a very compact and thermally effective solution. The thermally enhanced TSSOP package provides thermal resistances comparable to much larger conventional packages. The device operates with very small, low cost ceramic output capacitors, and is stable with only a 3.3uF output capacitor, compared to prior regulators of comparable output current and high voltage requiring 10uF to more than 100uF. These tiny external capacitors can be used without any necessary series resistance as is common with many other regulators. Internal protection circuitry includes reverse-battery protection, current limiting, thermal limiting, and reverse-current protection.


LT3013MPFE in the TSSOP package is priced at \$6.50 each in 1,000-piece quantities. For more information, visit www.linear.com.

Photo Caption: -55°C Capable 250mA 80V LDO**Summary of Features: LT3013MP**

- Operating Junction Temperature Range: -55°C to +125°C
- V_{IN} Range: 4V to 80V
- Adjustable Output from 1.24V to 60V
- Quiescent Current: 65uA (Typ), $I_{SD} < 1\mu A$
- Low Dropout Voltage: 400mV Typical
- Output Current: 250mA
- Programmable PGood Flag
- No Protection Diodes Needed
- Stable with Aluminum, Tantalum or Ceramic Capacitors
- Reverse-Battery Protection
- No Reverse Current Flow From Output
- Thermally Enhanced 16-Lead TSSOP 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, 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.

LT, LTC, LTM and  are registered trademarks and uModule is a trademark of Linear Technology Corp. All other trademarks are the property of their respective owners.

Press Contacts:

John Hamburger, Director Marketing Communications
jhamburger@linear.com
Tel: 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager
ddickinson@linear.com
Tel: 408-432-1900 ext 2233