



250mA Micropower LDOs Withstand up to 80V Input

MILPITAS, CA – October 16, 2006 – Linear Technology Corporation announces the LT3012 and LT3013, micropower LDOs with input voltage capability up to 80V. The LT3012 and LT3013 feature low dropout voltage of only 400mV while delivering up to 250mA of load current. The wide adjustable V_{OUT} capability from 1.24V to 60V makes them ideal for automotive, 48V telecom backup supplies and industrial control applications. Additionally, their very low quiescent current as low as 40uA (operating) and 1uA (shutdown) make them an excellent choice for battery-powered memory “keep alive” systems that require extended run times. The LT3013’s Powergood flag feature is programmable and indicates output regulation.

For high voltage applications that require large input-to-output differentials, the LT3012 and LT3013 offer a very compact and thermally effective solution. The thermally enhanced DFN and TSSOP packages provide thermal resistances comparable to much larger conventional packages.

The LT3012 and LT3013 operate with very small, low cost ceramic output capacitors. They are stable with only a 3.3uF output capacitor, compared to older regulator devices 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.

The LT3012EDE (12-lead low profile 3mm x 4mm x 0.75mm DFN package) and LT3012EFE (16-lead thermally enhanced TSSOP package) are available from stock. 1,000-piece pricing is set at \$2.05 and \$2.20 each. The LT3013EDE and LT3013EFE are available from stock in the same packaging with 1,000-piece pricing set at \$2.25 and \$2.40 each.

Summary of Features: LT3012 and LT3013

- V_{IN} Range: 4V to 80V
- Quiescent Current: 40uA Typical
- Shutdown Current: <1uA
- Low Dropout Voltage: 400mV Typical
- Output Current: 250mA
- Adjustable Output from 1.24V to 60V
- Programmable Powergood Flag (LT3013 only)
- No Protection Diodes Needed
- Stable with Aluminum, Tantalum or Ceramic Capacitors
- Reverse-Battery Protection
- No Reverse Current Flow From Output
- 12-Pin DFN (3mm x 4mm x 0.75mm) Package
- 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, 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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