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Dual 750mA/250mA Linear LDO Regulator with Independent Inputs Offers Ultralow Noise

MILPITAS, CA – March 13, 2013 – Linear Technology Corporation announces the [LT3030](#), a dual low noise, low dropout regulator with independent inputs and independent shutdown control for each channel. The device delivers continuous output current up to 750mA on one channel and 250mA on the other channel, with a low dropout voltage of only 300mV at full load. The LT3030 features a wide 1.8V to 20V input voltage range, delivering output voltages as low as 1.215V and up to 19.5V. The device features ultralow $20\mu\text{V}_{\text{RMS}}$ noise across a wide 10Hz to 100kHz bandwidth, a precision shutdown/UVLO threshold for each channel, tracking/sequencing capability and dual PWRGD flags to indicate output regulation per channel. The LT3030's full feature set and low quiescent current of $115\mu\text{A}/70\mu\text{A}$ per regulator (operating) and $<1\mu\text{A}$ each (in shutdown) make it ideal for battery-powered “keep alive” systems that require optimum run time, as well as microprocessor core logic supplies, tracking/sequencing supplies and general-purpose voltage conversion.

The LT3030 operates with very small, low cost, ceramic output capacitors, optimizing stability and transient response. It is stable with only a $10\mu\text{F}$ ceramic output capacitor on the 750mA channel and a $3.3\mu\text{F}$ ceramic output capacitor on the 250mA channel. Internal protection circuitry includes reverse-battery, no reverse current flow from output to input, current limiting with foldback and thermal shutdown. The thermal shutdown circuitry protects both channels if an overload or fault condition occurs on either channel.

The LT3030's compact packages offer thermal resistances equivalent to much larger conventional packages. The device is available in the 20-lead thermally enhanced TSSOP and 28-lead 4mm x 5mm QFN packages. A wide variety of grades/temperature ranges are offered, including E and I grades -40°C to $+125^{\circ}\text{C}$, H grade -40°C to $+150^{\circ}\text{C}$ and the high reliability MP grade -55°C to $+150^{\circ}\text{C}$. 1,000-piece pricing starts at \$3.27 for the E grade. For more information, visit www.linear.com/product/LT3030.


Photo Caption: Dual 750mA / 250mA Ultralow Noise LDO

Summary of Features: LT3030

- Output Current: 750mA / 250mA
- Low Dropout Voltage: 300mV
- Low Noise: 20 μ V_{RMS} (10Hz to 100kHz)
- Low Quiescent Current: 110 μ A/70 μ A
- Wide Input Voltage Range: 1.8V to 20V
- Adjustable Output Voltage: 1.215V to 19.5V
- Stable with 10 μ F/3.3 μ F Minimum Ceramic Output Capacitor
- Low Shutdown Current <1 μ A
- Reverse Battery Protection
- No Reverse Current Flow from Output to Input
- Thermal Shutdown & Current Limiting with Foldback
- Precision Threshold for Shutdown Logic or UVLO Function
- PWRGD Flag for Each Output
- Thermally Enhanced TSSOP-20E & 4mm x 5mm QFN-28 Packages

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

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Press Contacts:

North America / Worldwide

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

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

UK & Nordic

Alan Timmins
alan@ezwire.com
Tel: +44-1-252-629937