



## **Flyback Controllers Operate from -55°C to 150°C Junction Temperature**

MILPITAS, CA – June 21, 2010 – Linear Technology Corporation announces high reliability military temperature (MP) grade versions of the [LTC3803/-3/-5](#) current mode flyback controllers in the tiny 6-pin ThinSOT™ package. These devices are specified and are 100% production tested over a junction temperature range of -55°C to 150°C. The input and output voltage ranges of LTC3803/-3/-5-based power supplies are limited only by external components, enabling wide-input-voltage and high-input-voltage applications commonly found in industrial, telecom, military and automotive settings.

The constant 200kHz or 300kHz operating frequency is maintained down to very light loads, minimizing low frequency noise generation over a wide range of load current. An integrated soft-start function reduces inrush current and output voltage overshoot. A 100mV current sense threshold allows the use of a small current sense resistor to maintain high efficiency. An LTC3803/-3/-5-based power supply does not require any minimum output load for stable operation. An internal shunt regulator allows the LTC3803/-3/-5 to be powered simply from a high input voltage through a series resistor. In wide-Vin-range applications where this isn't feasible, the LTC3803 and LTC3803-3 feature a wide hysteresis undervoltage lockout that enables efficiency-enhancing micropower startup and bootstrap biasing techniques.

The LTC3803-3 differs from the LTC3803, with its higher 300kHz operating frequency. The LTC3803-5 differs from the LTC3803 with its lower 5V turn-on voltage. All devices are available from stock. Pricing for the LTC3803/-3/-5MP starts at \$3.95 each for 1,000 piece quantities. For more information, visit [www.linear.com/pr/3803](http://www.linear.com/pr/3803).


**Photo Caption:** -55°C to 150°C Operating Temperature Flyback

### Summary of Features: LTC3803/-3/-5MP

- Application Input Voltage Range: 5V/9V to 75V & Above
- -55°C to 150°C Operating Junction Temperature Range
- Ideal for Wide Input Voltage Range Isolated Supplies
- $V_{IN}$  and  $V_{OUT}$  Limited Only by External Components
- 200kHz or 300kHz Fixed Operating Frequency
- Start up Current of Only 40uA
- Low 240uA Quiescent Current
- Adjustable Slope Compensation
- Internal Soft Start
- Current Mode Control
- Tiny 6-Pin ThinSOT™ 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.

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