



Isolated Monolithic Flyback Simplifies Design & Eliminates Optocoupler

MILPITAS, CA – November 11, 2008 – Linear Technology Corporation announces the LT3573, an isolated monolithic flyback switching regulator with an integrated 1.25A NPN power switch. The LT3573 significantly simplifies the design of a flyback converter since it does not require a third winding or optoisolator and can sense the output voltage directly from the primary side flyback waveform. The LT3573 operates over an input voltage range of 3V to 40V at output power levels up to 7 watts, and can be used in a wide variety of industrial, medical, datacom and automotive applications requiring isolated power, including marine electronics, low power PoE and VoIP telephone interfaces.

The LT3573 operates in Boundary Mode, which is a variable frequency current mode switching scheme, resulting in a total regulation band of $\pm 3\%$ over a wide input voltage range and output load current in a typical application. Boundary mode operation also permits the use of a smaller transformer when compared to equivalent continuous conduction mode designs. The output voltage is easily set by two external resistors.

The LT3573 has additional features that include an on board LDO for 3rd winding powering, programmable soft start, undervoltage lockout, adjustable current limit and output voltage temperature compensation.

The LT3573 is available in a small thermally enhanced MSOP-16 package and is offered in an extended and industrial operating junction temperature range at -40°C to 125°C . Pricing starts at \$2.76 each in 1000-piece quantities.

Photo Caption: Isolated Monolithic Flyback Converter**Summary of Features: LT3573**

- V_{IN} Range from 3V to 40V
- On-Board 1.25A, 60V Integrated NPN Power Switch
- No Transformer, Third Winding or Optoisolator Required for Feedback
- Current Mode Control
- Boundary Mode Operation
- V_{OUT} Set with Two External Resistors
- Programmable Soft-Start
- Programmable Under Voltage Lockout
- Output Voltage Temperature Compensation
- Adjustable Current Limit

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. For more information, visit www.linear.com.

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