



Wide V_{IN} Range Flyback Controllers Feature 150°C Maximum Junction Temperature

MILPITAS, CA – March 31, 2009 – Linear Technology Corporation announces the H-Grade version of the LTC3805/-5 current mode programmable frequency flyback controllers. These devices contain all the features necessary to design high efficiency single-ended isolated and non-isolated flyback converters for telecom, datacom, Power-over-Ethernet (PoE), automotive and general housekeeping power supplies. With its ultralow 40uA start-up current, the LTC3805/-5 allows the use of a high-value input resistor and a low-value capacitor for low power dissipation and quick power supply start-up. The LTC3805H-5 differs from the LTC3805H with its lower turn-on voltage of 4.5V instead of 8.4V.

These parts are ideal for wide input voltage range applications, enabling users to have one power supply for both 48V (36V-75V) and 24V (18V-36V) nominal input systems. The operating frequency is selectable from 70kHz to 700kHz by one external resistor or for noise-sensitive requirements the device can be synchronized to an external clock over the same range. With a standby quiescent current of only 360uA, the LTC3805/-5 is an excellent choice for automotive applications.

The H-Grade products are tested and guaranteed to a junction temperature of +150°C, compared to the E and I Grade versions, which are specified for +85°C and +125°C maximum operating temperatures, respectively. The LTC3805 H-Grade version is ideal for automotive and industrial applications, which are subjected to high ambient temperatures.

Both the LTC3805H and LTC3805H-5 are available from stock in the thermally enhanced MSOP-10 package. Pricing starts at \$1.76 each for 1,000 piece quantities. For more information, visit www.linear.com.


Photo Caption: 150°C Operating Temperature Flyback

Summary of Features: LTC3805H/-5

- Start up Current of 40uA
- V_{IN} and V_{OUT} Limited Only by External Components
- Programmable Turn-On Voltage
- Adjustable Slope Compensation
- Programmable Soft Start
- Current Mode Control
- 70kHz to 700kHz Programmable Constant Frequency Operation
- Synchronizable up to 700kHz
- Thermally Enhanced MSOP-10 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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