



News release

Diodes Incorporated Announces High Frequency Synchronous Converters Reduce PCB Size and Cost

Dallas, Texas – October 15, 2008 --- Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete and analog semiconductor markets, has announced the first in a series of high efficiency synchronous DC-DC converters specifically targeting portable consumer electronics. The AP6714 boost and AP6015 buck converters offer high switching frequencies that help reduce circuit inductor and capacitor size, resulting in smaller PCBs and a lower component cost.

The maximum switching frequencies of the boost and buck converters are 2.2MHz and 1.2MHz, respectively. Their high typical efficiency of 94% combined with a low quiescent current of 150µA extends battery life and improves overall system performance. Both devices are packaged in the small footprint MSOP-10L format and integrate N- and P-channel power MOSFET switches. The converters are industrial temperature range rated at -40°C to +85°C.

With an adjustable output voltage range of 1.8V to 5.5V, the AP6714 boost converter is readily scaled to match multiple application requirements and can produce a drive current of up to 1.4A. Its 0.9V to 5.5V operating input voltage range also means it can support all 1-cell to 3-cell alkaline, NiCd, NiMH or single cell lithium batteries.

Similarly, the 2V to 5.5V input range of the AP6015 buck converter makes it ideal for use with 1 Cell Lithium and 2-3 cell NiCd or NiMH batteries. Capable of driving up to 800mA the highly flexible AP6015 is also offered with a choice of fixed output voltages (1.8V, 2.5V or 3.3V) or an adjustable output voltage (0.8V to V_{in}) enabling it to meet a broad range of portable I/O and core voltage needs.

To guard against high inrush current and output voltage overshoot, both converters include an internal soft start function which controls start-up current for a 1ms duration. For additional protection, the AP6714 boost converter adds an overcurrent protection feature which prevents the converter from overloading when connected to ground. For power monitoring or sequencing, the AP6015 buck converter also offers a 'power good' indication pin.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), an S&P SmallCap 600 and Russell 3000 Index company, is a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete and analog semiconductor markets, serving the consumer electronics, computing, communications, industrial and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, functional specific arrays, amplifiers and comparators, Hall-effect sensors and temperature sensors, power management devices including LED drivers, DC-DC switching regulators, linear voltage regulators and voltage references along with special function devices including USB power switch, load switch, voltage supervisor and motor controllers. The Company's corporate headquarters are located in Dallas, Texas. A sales, marketing, engineering and logistics office is located in Westlake Village, California. Design centers are located in Dallas; San Jose, California; Taipei, Taiwan; Manchester, England and Neuhaus, Germany. The Company's wafer fabrication facilities are located in Kansas City, Missouri and Manchester, England; with two manufacturing facilities located in Shanghai, China, another in Neuhaus, ny and a joint venture facility located in Chengdu, China. Additional engineering, sales, warehouse and logistics offices are located in Taipei; Hong Kong; Manchester and Munich, Germany, with support offices located throughout the world. For further information, including SEC filings, visit the Company's website at <http://www.diodes.com>.

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