



Buck Converter from Diodes Incorporated Handles Fast-Changing Loads

Plano, Texas – April 23, 2014 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic and analog semiconductor markets, today introduced a synchronous buck converter designed to optimize transient response in low-voltage TV and monitor applications. Based on an adaptive constant on-time control algorithm, the 5A-rated AP65550 quickly reacts to rapid changes in load conditions, guaranteeing a minimal drop in output voltage.

Managing wide variations in input/output voltage ratios, the device control algorithm also helps minimize external component count and enables the use of both low and ultra-low equivalent series resistance capacitors. The converter is available in the SO-8EP package and suitable for 5V, 9V and 12V bus systems, due to its stable 4.5V to 18V operating voltage range.

The buck converter's automatic light-load efficiency-improvement feature ensures seamless transition between continuous conduction mode at higher loads and discontinuous conduction mode at lighter loads. This helps designers comply with low power consumption regulations and achieves operating efficiencies as high as 92%.

To protect downstream components from damage and premature aging, the converter integrates a complete suite of protection features, including under-voltage lockout, thermal shutdown, over-current protection and programmable soft-start. For further information, visit the Company's website at www.diodes.com.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's 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, logic and analog semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, functional specific arrays, single gate logic, amplifiers and comparators, Hall-effect and temperature sensors; power management devices, including LED drivers, AC-DC converters and controllers, DC-DC switching and linear voltage regulators, and voltage references along with special function devices, such as USB power switches, load switches, voltage supervisors, and motor controllers. Diodes' corporate headquarters and Americas' sales office are located in Plano, Texas. Design, marketing, and engineering centers are located in Plano; San Jose, California; Taipei, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with four manufacturing facilities located in Shanghai, China, and two joint venture facilities located in Chengdu, China, as well as manufacturing facilities located in Neuhaus and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Fort Worth, Texas; Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; Suwon, South Korea; Tokyo, Japan; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at <http://www.diodes.com>.

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