



Adaptive COT Converters from Diodes Incorporated Provide Excellent Transient Response and High DC Output Accuracy

Plano, Texas – July 21, 2015 – 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 the AP65355 and AP65455. These adaptive, constant on-time (COT) mode synchronous buck converters provide low-voltage regulation with high efficiency, excellent transient response and high DC output accuracy at continuous output currents of 3A and 4A, respectively. Typical applications include consumer electronics, such as gaming consoles, TVs and computer monitors, as well as network systems and “green” electronics.

Adaptive on-time control supports the seamless transition between continuous conduction mode (CCM) under high load conditions and the use of discontinuous conduction mode (DCM) for lighter loads, ensuring maximum efficiency at all times. The devices cover a wide range of applications with input voltages from 4.5V to 18V and output voltages from -0.76V to +6V. A low quiescent supply current and integrated high- and low-side switches with low $R_{DS(ON)}$ help reduce power loss.

Under-voltage lockout, over-current and over-temperature protection features help prevent damage to downstream components and premature component failure. The device enable pin also has a high voltage tolerance, up to V_{IN} . Delivered in a standard pinout U-DFN3030-10 package, the AP65355/455 buck converters provide a lower-cost fit for existing designs and a compact solution for new designs with ease-of-use features such as programmable soft-start. Further information is available 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 two additional facilities located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai and in Chengdu, China, as well as in Neuhaus and in Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at www.diodes.com.

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Company Contact:

Diodes Incorporated
Julie Holland
VP, Worldwide Analog Products
P: 972-987-3900
E: pressinquiries@diodes.com

Investor Relations Contact:

Shelton Group
Leanne K. Sievers
EVP, Investor Relations
P: 949-224-3874
E: lsievers@sheltongroup.com