



OR'ing Controller from Diodes Incorporated Raises UPS Reliability

Plano, Texas – November 19, 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 the ZXGD3108N8 controller. This 40V-rated active OR'ing controller helps increase the reliability of uninterruptible power supplies (UPS) in telecom, data centers and server duties. The ZXGD3108N8 is designed to fully enhance very low $R_{DS(ON)}$ power MOSFETs, enabling lossy Schottky blocking diodes to be replaced and resulting in lowered operating temperature and increased UPS system integrity.

By driving MOSFETs in this way, the controller also improves the overall system efficiency of standard 12V and 24V common rail systems. Compared to alternative devices, the ZXGD3108N8 offers the lowest turn-off threshold voltage. At less than -3mV, and with a tight tolerance of $\pm 2\text{mV}$, system stability and efficiency is improved under light load conditions.

Additionally, the controller is able to sink a current of 5A, ensuring the fastest possible discharge of the paralleled OR'ing MOSFETs. At just 600ns, turn-off is fast to avoid reverse-current flow and prevent voltage dropping on the common rail. In a typical 12V configuration, device quiescent current is specified as sub 400 μA and standby power consumption less than 5mW.

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, logistics center, 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 more located in Shanghai, China. In addition, two assembly-test facilities are located in Shanghai; two are located in Chengdu, China, with one in Neuhaus and one in 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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