



Reversible DC Motor Driver from Diodes Incorporated Defeats Space Constraints

Plano, Texas – December 18, 2013 – 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 single-chip IC for driving single-coil reversible DC fans and motors. A highly integrated device, in a choice of SO8 and thermally enhanced SO8 exposed pad packages, the ZXBM5210 reduces component count and circuit footprints in medium voltage, low-power applications in consumer, domestic appliance, industrial and office equipment.

The driver's integrated high-performance H-bridge output stage can deliver currents as high as 700mA continuous, 1.2A peak and has been designed to meet stringent low noise requirements by minimizing both audible switching noise and electromagnetic interference. Its generous supply range of 3V to 18V means the device will support a wide variety of single phase 5V, 9V, 12V and 15V DC motors. Typical operating current is a low 0.85mA.

Achieving highly linear speed control, the ZXBM5210 has four modes of operation: forward, reverse, brake and standby, which are selected via the device's FWD and REV input pins. Motor speed is regulated by modifying the duty ratio of PWM signals applied to the two inputs or by adjusting the DC input voltage to the V_{REF} input pin. The PWM oscillator is integrated within the device and no external timing capacitor is required.

The ZXBM5210's standby mode consumes a typical current of only 32 μ A, thus improving motor driving power efficiency. To prevent damage to either the motor coil or driver IC, the ZXMB5210 incorporates under-voltage lockout, over-voltage, over-current and thermal shutdown protection functions. Product reliability and robustness is further enhanced by the devices' high ESD withstand

capability of 6kV and wide operating temperature range of -40°C to +105°C. 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, 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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