



*For immediate release*

## **Gate Drivers from Diodes Incorporated Provide Switching for Power MOSFETs or IGBTs in Half-Bridge or Full-Bridge**

**Plano, Texas – March 01, 2016** – 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 DGD21xx series of devices. These six half-bridge and six high/low-side 600V gate drivers provide a simple means of switching power MOSFETs and IGBTs in half- and full-bridge configurations. Target applications include driving motors in white goods, industrial automation systems and battery-operated vehicles such as eBikes and drones. They are also well-suited for power supplies above 600W and inverters in fuel cell, solar and wind power applications.

A floating high-side driver enables bootstrap operation up to 600V. This allows these devices to be used on the high-voltage rails commonly found in motor drives and power supplies. A high peak-current drive capability ensures the MOSFET or IGBT can switch quickly, delivering greater efficiency under high frequency operation. Inputs that are logic-compatible down to 3.3V further simplify the interface between the controller and the power switches.

To protect the MOSFET/IGBT from shoot-through, all devices have matched delays and the half-bridge drivers feature a pre-set internal dead time. Additional self-protection features include Schmitt inputs to avoid false triggering, a gate drive that is tolerant to negative transients arising from high  $dV/dt$  switching, and under-voltage lockout (UVLO) to avoid malfunction under low supply voltage conditions.

The DGD21xx series are supplied in SO-8 and SO-16 packages, providing pin-compatibility with other sources. For further information, visit the Company's website at [www.diodes.com](http://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, analog and mixed-signal semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, function-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 and Milpitas, California. Design, marketing, and engineering centers are located in Plano; Milpitas, California; Taipei, Taiwan; Taoyuan City, Taiwan, Zhubei City, Taiwan, Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Kansas City, Missouri and Manchester, with an additional facility located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai, in Jinan, in Chengdu, and in Yangzhou, China, as well as in Hong Kong, 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.

On November 24, 2015, Diodes Incorporated acquired Pericom Semiconductor Corporation with headquarters in Milpitas, California, and with design centers and technical sales and support offices globally. Pericom enables serial connectivity with the industry's most complete solutions for the computing, communications, consumer and embedded market segments. Pericom's analog, digital and mixed-signal integrated circuits, along with its frequency control products are essential in the timing, switching, bridging and conditioning of high-speed signals required by today's ever-increasing speed and bandwidth demanding applications.

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#### **Company Contact:**

Diodes Incorporated  
Francis Tang  
VP, Worldwide Discrete Products  
P: 972-987-3900  
E: [pressinquiries@diodes.com](mailto:pressinquiries@diodes.com)

#### **Investor Relations Contact:**

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