



For immediate release

Wide Voltage Omnipolar Hall Effect Switches from Diodes Incorporated are Optimized for Industrial Applications

Plano, TX – January 31, 2019 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic, analog and mixed-signal semiconductor markets, today announced its market-leading AH35xx series of omnipolar Hall effect switches. These devices feature a wide operating voltage range of 3V to 28V, enabling them to support all of the 3.3V, 5V, 12V, and 24V rails commonly found in industrial, office, and home appliance applications.

Typical applications within these markets include position and proximity sensing, open and close detection, level detection, and flow metering. All of the devices in the AH35xx series include input supply reverse polarity and overvoltage protection, with an impressive 6kV HBM ESD rating as well as output overvoltage and overcurrent protection.

“The combination of performance and robustness of our high-voltage omnipolar Hall effect switches makes them well-suited for appliances and industrial products,” said Charles Kuo, worldwide sensor marketing manager for Diodes Incorporated.

The series is comprised of three devices with a choice of two magnetic switching threshold configurations; operation points are either ± 40 or ± 20 gauss, while release points are ± 10 or ± 25 gauss, respectively. All devices feature high threshold stability and low temperature drift. The AH3572 and AH3574 feature an active-low, open-drain output, while the AH3582 provides an active-low, internal resistive pullup output, which can reduce component count and overall solution size.

The fast power-up ($10\mu\text{s}$) and response times ($3.75\mu\text{s}$) of the AH35xx series makes them particularly suitable for critical applications in protection and fault detection.

The AH35xx Series has been designed to operate across an ambient temperature range of -40°C to $+125^{\circ}\text{C}$. The AH35xx series is available in SOT23 (tape-and-reel) and SIP-3 (‘ammo’ or bulk) packages. 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, 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 also has timing, connectivity, switching, and signal integrity solutions for high-speed signals. 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; Taipei, Taiwan; Taoyuan City, Taiwan; Zhubei City, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facility is located in Manchester, with an additional facility located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai, Jinan, Chengdu, and Yangzhou, China, as well as in Hong Kong, Neuhaus, and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; Munich, Germany; and Tokyo, Japan, with support offices throughout the world.

Recent news releases, annual reports and SEC filings are available at the Company's website: <http://www.diodes.com>. Written requests may be sent directly to the Company, or they may be e-mailed to: diodes-fin@diodes.com.

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