



Ultra-low Power Omnipolar Hall Effect Sensors from Diodes Incorporated Deliver Market-Leading Stability Over Wide Operating Range

Plano, TX – November 27, 2018 – 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 introduced the AH1911/21 digital Hall effect sensors, which combine market-leading stable operating and release points (B_{OP} and B_{RP}) with ultra-low power operation. The 3rd generation devices will respond to either polarity of magnetic field and use a 'hibernating clock' system to reduce average current consumption to 1.6 μ A at 3V supply.

A wide operating voltage range of 1.6V to 5.5V enables the part to be used with a variety of system voltages. Operating and release points for the magnetic switch are tightly controlled over temperature and supply voltage due to advanced stabilizing techniques for accurate and repeatable performance. Flux density switching points are typically ± 60 Gauss (6mT) to operate and ± 45 Gauss (4.5mT) to release.

The AH1911/21 is ideal for battery-powered devices where the low power consumption and wider operating voltage range help to extend battery life. Typical applications include medical and consumer products, tamper detection for e-meters, smoke detectors, IoT devices and general level/proximity detection.

Available in the industry-standard three-pin SC59 package, the AH1911 and AH1921 feature push-pull and open-drain outputs, respectively. Both are specified over the -40°C to $+85^{\circ}\text{C}$ temperature range and have a high ESD rating of 6kV (Human Body Model).

"These sensors, with their stable BOP/BRP and ultra-low power consumption provide market-leading performance at the best cost/performance ratio," said Charles Kuo,

worldwide sensor marketing manager for Diodes Incorporated. 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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