



Programmable Hall Switch from Diodes Incorporated Extends Flexibility of Detection Circuit Designs

Plano, Texas – March 27, 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 programmable omnipolar Hall effect switch enabling designers to use the same contactless detection circuit in multiple applications or with different field strengths. The miniature and micropower AH1898 is suitable for numerous portable consumer applications including cell phones, tablets and cameras as well as a variety of domestic, office and industrial equipment.

Able to detect both north and south magnetic fields, the AH1898 features a band-select pin, which allows device sensitivity to be changed to one of two predefined magnetic sensitivity ranges. In addition, it can also be used change the band on the fly, using an external logic source or microcontroller. The high sensitivity of the Hall sensor also means that it can support weaker, lower cost magnets and can be used at a greater distance from the magnet.

The AH1898 Hall switch has been optimized for use over a 1.6V to 3.6V low-voltage supply range and employs a hibernating clocking system to minimize power consumption. With an average supply current of just 4.3 μ A (typical) at 1.8V, this micropower device helps to extend portable battery cell lifetime.

To ensure high reliability in a broad range of applications, the AH1898 has been designed with an 8kV ESD rating on supply and output pins. Circuit robustness is further raised by the AH1898's chopper stabilized design, delivering superior temperature stability over the operating range from -40°C to +85°C, absolute minimum switch point drift, and enhanced immunity to RF noise and physical stress.

The AH1898 is available in the miniature 0.8mm x 0.8mm CSP package, making it 12 times smaller than common TSOT-packaged alternatives. At the same time, its simple 4-pin footprint and integration of pull-up resistors results in reduced external component counts and a simplification of PCB layouts. 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 four manufacturing facilities located in Shanghai, China, and two joint venture facilities located in Chengdu, China, as well as manufacturing facilities located in Neuhaus and 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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Company Contact:

Diodes Incorporated
Julie Holland
VP, Worldwide Analog Products
P: 972-987-3900
E: pressinquiries@diodes.com

Investor Relations Contact:

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