



High-Voltage, Wide Temperature Range Hall Effect Latch Family from Diodes Incorporated Offers Sensitivity and Output Options

Plano, Texas – September 30, 2015 – 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 AH37xx family of high-voltage Hall effect latch ICs. These provide various operating magnetic thresholds to address motor control, rotational position, and speed-sensing requirements such as controlling the commutation of brushless DC (BLDC) motors in washing machines, dishwashers, fridge-freezers, air-conditioners, food processors, power tools and cooling fans; the measurement of speed in motors, pumps and flow meters; and contactless position sensing/indexing in printers, scanners, and window blinds.

Spanning industrial and consumer applications, the AH37xx family is designed for 3V to 28V operation and integrates a reverse-blocking diode, Zener clamps on input/output pins and an output current limit to help provide protections from transients and overload. An extended temperature specification, from -40°C to +125°C, and a low temperature coefficient ensure reliable operation at the switching threshold points while a 6kV ESD capability improves robustness and allows easier handling during manufacturing.

System design flexibility is achieved with different magnetic operation and release thresholds (B_{OP} and B_{RP}) within the family: the AH3772/4 and AH3781/2 provide high sensitivity with B_{OP} and B_{RP} of +25G/+40G and -25G/-40G, the medium sensitivity AH3775/6 parts are rated at +70G/+110G and -70G/-110G, and the AH3777 is the least sensitive with a +140G and -140G specification. The designer is also offered a choice of output configuration, between the open-drain

AH377x series and the AH378x parts, which have an internal pull-up resistor to lower BOM count and save board space.

The AH37xx Hall effect latch ICs offer excellent performance with a fast 10 μ s power-on time and a quick 3.75 μ s response time that reduces delays and commutation errors. A chopper-stabilized architecture with an internal bandgap regulator ensures temperature stability, minimizes switch point drift and provides enhanced immunity to stress. The devices also have good RF noise immunity, further contributing to overall operational reliability. 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 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 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 additional facilities located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai and in Chengdu, China, as well as in 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. For further information, including SEC filings, visit Diodes' website at www.diodes.com.

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