



## **Self-Protected Resettable e-Fuse from Diodes Incorporated Targets Consumer Applications**

**Plano, Texas – June 16, 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 NIS5135. Designed to enhance system reliability against shutdown and catastrophic failures, this resettable electronic fuse is well-suited for plug and play applications in consumer applications including hard disc and solid state drives, printers, and set-top boxes. By allowing the product to recover, this e-fuse helps reduce unnecessary field returns.

Operating over a wide 3.1V to 18V input voltage range and rated at 3.6A, the NIS5135 integrates an NMOS power device with a low  $30\text{m}\Omega$   $R_{\text{DS(ON)}}$  for reduced power loss. It also features an internal current limit that avoids the voltage drop normally incurred by an external sense resistor in the load path. An over-voltage circuit limits the output voltage without shutting the device down, while downstream components are further protected from damage or premature failure by under-voltage lockout (UVLO) and thermal shutdown circuits, with latching (NIS5135MN1) or auto-retry (NIS5135MN2) options.

Supplied in a small, low profile U-DFN3030-10 package to minimize application footprint, the NIS5135's industry-standard pin-out allows it to drop into existing designs, providing an alternative lower-cost source for high volume production. Further information is available 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 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 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](http://www.diodes.com).

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