



*For Immediate Release*

## **Power Switch Family Protects USB Ports in Consumer and Computing Applications**

**Dallas, Texas – September 25, 2008** – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete and analog semiconductor markets, has introduced a family of 12 new USB power switches, providing a cost effective and small form fit for USB ports in a wide range of consumer and computing applications. The USB port has become the de-facto method of connection between many products and is increasingly used as a convenient way to charge or power these devices. Diodes' new family of products is specifically designed to target this large market opportunity. Both single and dual channel power switches are available, with all devices being optimised for self-powered and bus-powered USB applications and fully compliant with all USB standards.

The AP21XX high-side power switch range has been created for USB port applications that require fast response, high accuracy over-current and over-temperature protection, such as HD televisions, set top boxes and PCs. Offering designers 0.75A, 1.5A and 2.1A current limiting options and a choice of active-high and active-low enable, the AP21XX optimizes port protection in a host of different systems.

The power switches include an internal sensing FET, which monitors for over-current conditions without increasing series resistance in the current path and an over-temperature sensor. If either over-current or over-temperature conditions are sensed, then the device switches into its current limiting mode. To prevent unwanted tripping when a high capacity load is connected to the device output, a 7ms deglitch timeout has also been included in the AP21XX's design.

The USB power switch family is provided in small footprint SOT25, SOP-8L and MSOP-8L-EP packages. All of which are direct replacements for existing industry standard parts. Device operating ambient temperature range is from -40 to 85°C. AP21XX family devices are priced at \$0.35 USD for 1k quantities of single power switches in SOT25 and are available through regular distribution channels.

### **About Diodes Incorporated**

Diodes Incorporated (Nasdaq: DIOD), an S&P 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 and analog semiconductor markets, serving the consumer electronics, computing, communications, industrial and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, functional specific arrays, amplifiers and comparators, Hall-effect sensors and temperature sensors, power management devices including LED drivers, DC-DC switching regulators, linear voltage regulators and voltage references along with special

function devices including USB power switch, load switch, voltage supervisor and motor controllers. The Company's corporate headquarters are located in Dallas, Texas. A sales, marketing, engineering and logistics office is located in Westlake Village, California. Design centers are located in Dallas; San Jose, California; Taipei, Taiwan; Manchester, England and Neuhaus, Germany. The Company's wafer fabrication facilities are located in Kansas City, Missouri and Manchester, England; with two manufacturing facilities located in Shanghai, China, another in Neuhaus, and a joint venture facility located in Chengdu, China. Additional engineering, sales, warehouse and logistics offices are located in Taipei; Hong Kong; Manchester and Munich, Germany, with support offices located throughout the world. For further information, including SEC filings, visit the Company's website at <http://www.diodes.com>.

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