



**FOR IMMEDIATE RELEASE**

## **Diodes, Inc. Announces New Addition to Portfolio of High-Efficiency DC-DC PWM Buck Converters**

- Applications include LCD TV's and monitors, set-top boxes, WLAN routers and industrial controls

**Dallas, Texas – July 24, 2007 – Diodes Incorporated (Nasdaq: DIOD)**, a leading manufacturer and supplier of high-quality application specific standard products within the broad discrete and analog semiconductor markets, today announced a new addition to their family of DC to DC converters – the AP1533. The AP1533 is a 300KHz, 1.8A Asynchronous PWM Buck Converter with soft-start function, low ripple noise output, low current consumption, high efficiency and excellent transient characteristics, ideal for use in a wide range of computing and consumer electronic applications. This high-efficiency buck converter has a wide input voltage range of 4V to 23V, an adjustable output voltage from 0.8V to 23V, and is well suited for applications like LCD monitors, TVs, DVD/PVR players, set-top boxes, xDSL modems, and networking and telecommunications equipment.

“The introduction of the AP1533 converter is a solid example of our commitment to continue to enhance our power management product portfolio and we are already experiencing strong customer interest in this device for use in high volume consumer electronic devices like LCD monitors and DVD players,” commented Mark King, Diodes’ Sr. VP of Sales and Marketing.

The AP1533 DC-DC Buck Converter's duty-cycle varies between 0% and 99%, depending on the output voltage. It can provide a low noise output current up to 1.8A over a broad range of input voltages. In addition, the voltage lockout circuit of the AP1533 assures that the built-in high-side MOSFET driver remains in the off state whenever the supply voltage drops below 3.3V threshold resuming once the supply voltage rises above 3.5v. This makes the AP1533 ideal for today's energy efficient and environment friendly requirements. Additional features that increase reliability are thermal shutdown and short circuit protection, as well as current limiting.

Offered in the small, thermally enhanced SOP-8L package, the AP1533 is pin-compatible with the already popular AP1513 DC-DC converter. It also supports a wide operating temperature ranges from -25°C to 85°C.

### **About Diodes Incorporated**

Diodes Incorporated (Nasdaq: DIOD) an S&P SmallCap 600 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, power management devices including DC-DC switching and linear voltage regulators, amplifiers and comparators, and Hall-effect sensors. The Company has its corporate offices in Dallas, Texas, with a sales, marketing, engineering and logistics office in Southern California; design centers in Dallas, San Jose and Taipei; a wafer fabrication facility in Missouri; two manufacturing facilities in Shanghai; a fabless IC plant in Hsinchu Science Park, Taiwan; engineering, sales, warehouse and logistics offices in Taipei and Hong Kong, and sales and support offices throughout the world. With its recent asset acquisition of APD Semiconductor, a privately held U.S.-based fabless semiconductor company,

Diodes acquired proprietary SBR® technology. Diodes, Inc.'s product focus is on high-growth end-user equipment markets such as TV/Satellite set-top boxes, portable DVD players, datacom devices, ADSL modems, power supplies, medical devices, wireless notebooks, flat panel displays, digital cameras, mobile handsets, DC to DC conversion, Wireless 802.11 LAN access points, brushless DC motor fans, and automotive applications. For further information, including SEC filings, visit the Company's website at <http://www.diodes.com>.

*Safe Harbor Statement Under the Private Securities Litigation Reform Act of 1995: Any statements set forth above that are not historical facts are forward-looking statements that involve risks and uncertainties that could cause actual results to differ materially from those in the forward-looking statements. Potential risks and uncertainties include, but are not limited to, such factors as the integration of acquisitions within Diodes existing operations, the Company's ability to successfully make additional acquisitions, fluctuations in product demand, the introduction of new products, the Company's ability to maintain customer and vendor relationships, technological advancements, impact of competitive products and pricing, growth in targeted markets, successful integration of acquired companies and/or assets, risks of foreign operations, availability of tax credits, and other information detailed from time to time in the Company's filings with the United States Securities and Exchange Commission.*

Source: *Diodes Incorporated*

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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](mailto:diodes-fin@diodes.com).

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