



FOR IMMEDIATE RELEASE

## Diodes, Inc. Introduces PowerDI™123 Compact Power Package

- *Patent-pending construction results in industry leading thermal performance combined with increased miniaturization and efficiency*

**Westlake Village, California – April 6, 2004** – Diodes Incorporated, (Nasdaq: [DIOD](#)) a leading manufacturer and supplier of high quality discrete semiconductors, today announced the release of its newest high current density package type, PowerDI™123, creating one of the most thermally efficient compact rectifier packages available on the market.

The new package uses a patent-pending interlocking-clip construction and a flat lead frame heat-sink solder pad to achieve thermal performance unequaled by competitive flat lead SOD-123 package designs.

With a printed circuit board (PCB) footprint of only 6.75 mm<sup>2</sup> and a low-profile package height of 1mm, the PowerDI™123 occupies up to 50% less PCB area than competitive packages while offering higher power dissipation. The breakthrough internal construction also exhibits lower forward voltage drop and higher surge current capabilities resulting in optimum power efficiency, which is a growing requirement in today's compact battery powered applications.

“We are very excited about the introduction of this first Schottky rectifier series based on our breakthrough PowerDI™ packaging technology,” said Diodes’ President and CEO, C.H. Chen. “This exemplifies Diodes’ ongoing transformation into an innovation leader for discrete devices, as we develop the core intellectual property that enables us to transcend the current limits of performance, size and power consumption.”

PowerDI™123 was developed to satisfy the increasingly demanding requirements in consumer and automotive applications where reduced component size is needed without sacrificing performance. Small and light portable consumer products such as cellular phones, PDAs, MP3 players, digital cameras and notebook computers will benefit from the small package form factor. Additionally, increased battery life will result from the high efficiency of the package and advanced Schottky wafer technology. Automotive applications will benefit from the PowerDI™123’s compact design, robust construction, and high surge capability.

“The PowerDI™123 series successfully resolves the limitations posed by other competing packages, making it ideally suited to high-volume applications in our core end equipment categories,” said Mark King, VP of Sales and Marketing. “As a result, preliminary customer interest in our PowerDI™123 has been very strong. We expect to introduce additional series -- including 200W Transient Surge Protectors, High Voltage Schottky rectifiers (100V thru 200V), 200V-400V Standard and Superfast Recovery rectifiers, and the DFLZ series of 1-Watt Zener diodes, ranging from 5.6V to 24V -- in the upcoming months.”

Designed to meet the most rigorous reliability requirements, all PowerDI™123 products meet the automotive industry's AEC-Q101 reliability test standards. Constructed with environmentally friendly lead-free plating, 100% matte Tin (Sn) is used on all externally plated surfaces. Flat lead construction contributes to package stability and ease of soldering to the PCB. PowerDI™123 is designed to withstand 260°C solder reflow, and meet Moisture Sensitivity Level (MSL) 1.

The first products offered in the PowerDI™123 include a series of high efficiency 1-Ampere Schottky rectifiers ranging from 20 Volts to 40 Volts reverse breakdown. Part numbers including DFSL120L, DFSL130, and DFSL140 are in stock and available for immediate delivery.

For more information, visit <http://www.diodes.com> or contact Diodes' customer service at 800-446-4800 or email at [info@diodes.com](mailto:info@diodes.com).

### **About Diodes Incorporated**

Diodes Incorporated (Nasdaq: DIOD) is a leading manufacturer and supplier of high-quality discrete semiconductor products, serving the communications, computer, industrial, consumer electronics and automotive markets. The Company operates three Far East subsidiaries, Diodes-China (QS-9000 and ISO-14001 certified) in Shanghai, Diodes-Taiwan (ISO-9000 certified) in Taipei, and Diodes-Hong Kong. Diodes-China's manufacturing focus is on subminiature surface-mount devices destined for wireless devices, notebook, flat panel display, digital camera, mobile handset, set top box, DC to DC conversion, and automotive applications, among others. Diodes-Taiwan is our Asia-Pacific sales, logistics and distribution center. Diodes-Hong Kong covers sales warehouse and logistics functions. The Company's 5" wafer foundry, Diodes-FabTech (QS-9000 certified), specializes in Schottky products and is located just outside Kansas City, Missouri. The Company's ISO-9000 corporate sales, marketing, engineering and logistics headquarters is located in Southern California. For further information, visit the Company's website at <http://www.diodes.com>.

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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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