



FOR IMMEDIATE RELEASE

## **Diodes Incorporated Completes Licensing Agreement with Microsemi Corporation for New PowerDI™5 Package**

- ◆ *Previous licensing agreement expands to Diodes, Inc.'s new product family*

**WESTLAKE VILLAGE, California, December 17, 2004** –Diodes Incorporated (**NASDAQ: DIOD**) today announced it has signed an agreement with Microsemi Corporation (**NASDAQ: MSCC**) allowing Microsemi to license Diodes' newly released, patent-pending PowerDI™5 package.

Diodes Incorporated, headquartered in Westlake Village, California is a leading manufacturer and supplier of high-quality discrete semiconductor products, and Microsemi Corporation, headquartered in Irvine, California, is a market-leading designer, manufacturer and marketer of analog, mixed-signal and discrete semiconductors.

“We are very excited about this reciprocal licensing agreement with Microsemi,” said C.H. Chen, President and CEO of Diodes, Inc. “Our collaboration in the past has been mutually beneficial as the unique strength of Microsemi’s proprietary technology in our products has allowed us to build on our existing range of industry-leading diode, rectifier and protection devices while Microsemi has gained broadened industry acceptance of its advanced proprietary technology through having Diodes, Inc. as a second source. We are therefore looking forward to continuing this productive collaboration for our new proprietary Power DI™5 series.”

“This reciprocal agreement will allow us to leverage Diodes’ innovative packaging technology to further exploit the numerous commercial applications that exist among our customer base and served markets,” said James J. Peterson, President and CEO of Microsemi. “Customers and end-users are the ones who benefit most from this reciprocal agreement through the companies’ increased ability to continue to develop and offer state-of-the-art products with leading edge technology.”

### **About PowerDI™5**

Diodes’ new patent-pending PowerDI™5 accommodates larger die sizes and higher amperage than other high-performance packages currently available. As a result, this broadens the range of high-performance next-generation discrete devices that Diodes is now able to offer its customers. The release of this new proprietary patent-pending package is building upon the momentum generated by the performance packaging platforms of Diodes, Inc.’s’ PowerDI™123 proprietary technology as well as Microsemi’s proprietary technology. The first products in the recently released PowerDI™5 family were the high-efficiency 3 Ampere, 200 Volt low leakage Schottky Barrier rectifier device PDS3200, and the 5 Ampere, 100 volt low leakage PDS5100H.

Diodes, Inc.’s compact proprietary packaging designs offers significant advantages over larger and higher profile D-PAK technology, providing exceptionally low thermal resistance and high power

density, which are key benefits in power management and DC to DC conversion applications. In addition, the low profile of these devices that are roughly a third of the size of comparable devices, offers a practical alternative to available chip scale packaging techniques used in high-density packaging designs.

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**PowerDI** is a trademark of Diodes Incorporated.

### **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 two Far East subsidiaries, Diodes-China (QS-9000 & ISO-14001 certified) in Shanghai and Diodes-Taiwan (ISO-9000 certified) in Taipei. Diodes-China's manufacturing focus is on surface-mount devices destined for wireless devices, notebook computers, pagers, PCMCIA cards and modems, among others. Diodes-Taiwan is our Asia-Pacific sales, logistics and distribution center. The Company's newly acquired 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>.

### **About Microsemi Corporation**

Microsemi is a leading designer, manufacturer and marketer of analog, mixed-signal and discrete semiconductors. The company's semiconductors manage and regulate power, protect against transient voltage spikes and transmit, receive and amplify signals. Microsemi products include individual components as well as complete circuit solutions that enhance customer designs by providing battery optimization, reducing size or protecting circuits. Markets the company serves include mobile connectivity, computer/peripherals, telecommunications, medical, industrial/commercial, space/satellite and military. More information may be obtained by contacting the company directly or by visiting its website at <http://www.Microsemi.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 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, risks of foreign operations, 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 Diodes Incorporated 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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