



## **Class-D Audio Amplifier from Diodes Incorporated Reduces Component Count**

**Plano, Texas – February 12, 2014** – 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 PAM8407 Class-D audio amplifier. This product integrates an advanced 32-step up/down volume control and enables a reduction in component count in a variety of stereo speaker applications, including PCs, docking stations and wireless speakers.

Able to drive dual 4 $\Omega$  speakers at 3W per channel from a 5V supply, the amplifier provides designers with simple two key up/down volume control and high-quality sound reproduction. With its fully differential inputs, the device ensures low noise, high PSRR and solid THD+N performance.

The Class-D amplifier's filter-less output architecture saves space by minimizing the number of external components, while also ensuring a lower quiescent current and improved EMI performance.

With its low pin count SO-16 packaging, small external circuit requirement and an efficiency of 87%, the PAM8407 is particularly appropriate for portable applications. The wide operating voltage range of 2.5V and 6V makes it especially well-suited for a 4x alkaline cell configuration.

The amplifier also incorporates a range of safeguards to protect it from damage. These include auto-recovery short-circuit protection, under-voltage lockout and over-temperature protection. For further information, visit the Company's website 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, logistics center, 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 four manufacturing facilities located in Shanghai, China, and two joint venture facilities located in Chengdu, China, as well as manufacturing facilities located in Neuhaus and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Fort Worth, Texas; Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; Suwon, South Korea; Tokyo, Japan; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at <http://www.diodes.com>.

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