



3W Stereo Class-D Audio Amplifier from Diodes Incorporated Drives Bridge-Tied Stereo Speakers or Class-AB Headphones

Plano, Texas – February 26, 2015 – 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 PAM8009. This device is a 3W stereo class-D audio amplifier and class-AB headphone driver well-suited for the LCD monitor, all-in-one PC, and video projector markets. Featuring power limit technology for speaker protection and an advanced DC volume control for precise 64-step gain adjustment, this amplifier minimizes external components to achieve a highly integrated solution in compact 20-pin QFN or 24-pin SOP packages.

With an output power rating of up to 2.4W/channel into 4 Ω bridge-tied speakers at a THD+N of 1% (up to 3W at 10% THD+N), the PAM8009 provides a high-power, low-cost capability for driving the small internal speakers typically found in LCD monitors and similar types of applications. A separate connection provides for single-ended driving of stereo headphones with a power output of 60mW into 32 Ω loads. A DC volume control with hysteresis allows for gain adjustment from -80dB to +20dB in 64 steps. Automatic gain control and under-voltage protection functions prevent speaker damage due to output clipping and will shut down the amplifier before an input device generates a 'pop'.

The PAM8009 operates from 2.8V to 5.5V supplies, consuming a quiescent current of 7mA at 5V. Thermal and over-current protection is incorporated with auto-recovery and the device is supplied in power-enhanced packages to aid power dissipation. A mute pin allows the speaker/headphone outputs to be quickly disabled, also helping to save power. To further reduce power

consumption a shutdown mode turns off the amplifier's bias circuit. Further information is available at 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 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 two additional facilities located in Shanghai, China. Diodes has assembly and test facilities located in Shanghai and in Chengdu, China, as well as in Neuhaus and Taipei. Additional engineering, sales, warehouse, and logistics offices are located in Taipei; Hong Kong; Manchester; Shanghai; Shenzhen, China; Seongnam-si, South Korea; and Munich, Germany, with support offices throughout the world. For further information, including SEC filings, visit Diodes' website at www.diodes.com.

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