



Diodes Incorporated's 1.9W Class-D Audio Amplifier Delivers High SPL and Extends Battery Life

Plano, Texas – May 14, 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 PAM8905. Aimed at smartphones operating from a single-cell lithium-ion battery, the PAM8905 is a 1.9W class-D audio amplifier designed for audio systems that need to deliver a high sound pressure level (SPL) output from a low supply voltage. It achieves this with a built-in boost converter that generates the voltage rail for the output stage while using a battery-tracking automatic gain control (AGC) to adjust the gain and limit battery current when the battery voltage is low, thus prolonging battery life.

With its high-efficiency class-D audio power amplifier and integrated boost converter, the PAM8905 drives up to 1.9W into an 8 Ω speaker with a total harmonic distortion plus noise (THD+N) of just 1%. The fully synchronous topology of the boost circuit minimizes external components, achieves higher efficiency and maximizes the output power of the amplifier compared to a standard amplifier connected directly to the battery. The built-in AGC function ensures excellent sound reproduction and further helps extend battery lifetime.

The PAM8905 features DC input voltage protection to prevent damage to the speaker in the event of input voltages with high DC bias levels. The device is also protected against output short circuits with full auto-recovery and has under-voltage lockout (UVLO) and over-temperature protection. Supplied in a 12-pin U-WLB1520-12 CSP package measuring just 15mm x 20mm x 0.6mm, the PAM8905 provides a low pin-count and small size solution to save board space. 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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