



## **Piezo-Sounder Driver from Diodes Incorporated Enables Higher Volume with Lower Currents**

**Plano, Texas – June 5, 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 PAM8904 piezo-sounder driver with integrated multi-mode charge pump boost converter. The PAM8904 is capable of driving piezoelectric sounders up to 18V<sub>PP</sub> from a 3V power supply. With its wide input signal range of 20Hz to 300kHz and ability to deliver high volume at a low operating current, this driver is suitable for a variety of battery-powered applications, including medical systems, alarm clocks and security devices.

Operating from a 2.3V to 5.5V supply at a fixed frequency of 1MHz, the PAM8904 is able to drive a sounder load of up to 15nF, providing a 9V output with a minimal component footprint. The charge pump also enables designers to select three different piezo sound pressure levels by offering 1x, 2x and 3x operating modes.

The sounder driver helps to keep current consumption low and battery life long by employing built-in automatic shutdown and wake-up functions. For example, active current consumption is just 300μA in 1x mode, with an input voltage of 3V, input frequency of 4kHz and driving a 15nF piezo. In shutdown mode, quiescent current is less than 1μA.

Product reliability is aided by the PAM8904's low inrush current, low EMI drive technology and a variety of integrated protection features. These comprise thermal shutdown, over-current, over-voltage and under-voltage lock-out 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 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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