



For immediate release

Diodes Incorporated Introduces High-Accuracy, Single-Chip Protection IC for 1-Cell Li+ Battery Packs

Plano, Texas – December 10, 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 AP9234L. Offering a substantial set of protection features, this IC is specifically designed to provide a high-accuracy, single-chip solution for 1-cell lithium-ion (Li+) or lithium-polymer rechargeable battery packs. Key markets for this device are manufacturers of battery protection circuit modules for smart phones, cameras and similar consumer electronics equipment.

The AP9234L integrates a high-accuracy battery protection circuit with a dual N-channel common-drain MOSFET that features an ultra-low $R_{SS(ON)}$ specification, typically just $13m\Omega$ at $V_{DD} = 4.0V$ and $I_D = 1.0A$. Safe battery charging and discharging is achieved by turning the MOSFET off when overcharge voltage/current, over-discharge voltage/current, or load short-circuit conditions are detected. A built-in fixed delay time also protects external components.

Stable voltage detection over the full $-40^{\circ}C$ to $+85^{\circ}C$ operating temperature range is ensured by Diodes Incorporated's innovative design and process technology, which also delivers power savings through a low quiescent current, typically $3.0\mu A$ in normal mode and $0.1\mu A$ in power-down mode. Additionally, an over-current detection voltage compensation circuit assures current limit accuracy. As well as a power-down capability, the AP9234L features a selectable auto-wake up function and offers protection voltage customization to cater for different cell-type specifications.

The AP9234L is offered in a standard pinout DFN2535-6 package. 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 in 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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