



For immediate release

DFN2020-Packaged P-Channel MOSFETs from Diodes Incorporated Reduce Losses in Load Switching

Plano, Texas – December 09, 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 DMP1022UFDF and DMP2021UFDF. These small form-factor 2mm x 2mm DFN2020 packaged P-channel MOSFETs are rated at 12V and 20V, respectively. These devices are specifically designed for load switching in high-efficiency battery management of portable consumer electronics such as Tablets, Smartphones, Ultrabooks, and for applications in the Internet of Things.

Circuit designers looking for a simple and inexpensive method of disabling low-voltage power rails will appreciate the guaranteed low on-state resistance ($R_{DS(ON)}$) of these MOSFETs under low gate drive conditions. This enables power rails down to 1.5V to be switched with minimal conduction losses. The DMP1022UFDF has an $R_{DS(ON)}$ of $<20m\Omega$ with a -2.5V gate drive, while the DMP2021UFDF achieves $<26m\Omega$ at -1.8V gate drive. Switching off power to idle processor cores and other inactive circuitry using MOSFETs as high-side load switches is a very effective way of extending battery life.

Equally important for space-critical applications is the small $4mm^2$ footprint DFN2020 package, which has an off-board height of just 0.6mm. This package also features an exposed drain pad with a thermal resistance of $<10^{\circ}C/W$ from junction to pad to assist in extracting heat from the package, reducing die temperature and increasing device reliability. For further information, visit the Company's website 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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