



For immediate release

Miniature Automotive MOSFETs from Diodes Incorporated Deliver Increased Power Density

Plano, Texas – September 12, 2019 – Diodes Incorporated (Nasdaq: DIOD) today announced the introduction of the 40V-rated DMTH4008LFDFWQ and 60V-rated DMTH6016LFDFWQ automotive-compliant MOSFETs packaged in DFN2020. These miniature MOSFETs occupy just 10% of the PCB area of larger packages, such as SOT223, enabling greater power density in DC-DC converters, LED backlighting, ADAS, and other ‘under-the-hood’ automotive applications.

The DMTH4008LFDFWQ has a typical $R_{DS(ON)}$ of 11.5m Ω at $V_{GS} = 10V$ and a gate charge, Q_g , of just 14.2nC. The DMTH6016LFDFWQ has a typical $R_{DS(ON)}$ of 13.8m Ω at $V_{GS} = 10V$ and a Q_g of 15.2nC. Similarly, both devices are qualified to 175°C and packaged in the sidewall plated DFN2020, making them suitable for use in high ambient temperature environments.

When used in a typical application, such as a 12V, 5A buck converter, the DMTH4008LFDFWQ dissipates 20% less power than comparable competitor MOSFETs. This significant improvement in efficiency provides automotive designers with greater flexibility and the freedom to increase power density in new or existing automotive applications.

The DMTH4008LFDFWQ and DMTH6016LFDFWQ are automotive-compliant to AEC-Q101 and supported by PPAP for full traceability.

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, analog and mixed-signal semiconductor markets. Diodes serves the consumer electronics, computing, communications, industrial, and automotive markets. Diodes' products include diodes, rectifiers, transistors, MOSFETs, protection devices, function-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 also has timing, connectivity, switching, and signal integrity solutions for high-speed signals. Diodes' corporate headquarters and Americas' sales office are located in Plano, Texas and Milpitas, California. Design, marketing, and engineering centers are located in Plano; Milpitas; Taipei, Taiwan; Taoyuan City, Taiwan; Zhubei City, Taiwan; Manchester, England; and Neuhaus, Germany. Diodes' wafer fabrication facilities are located in Manchester and Greenock, UK, and Shanghai, China. Diodes has assembly and test facilities located in Shanghai, Jinan, Chengdu, and Yangzhou, China, as well as in Hong Kong, 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.

Recent news releases, annual reports and SEC filings are available at the Company's website: <http://www.diodes.com>. Written requests may be sent directly to the Company, or they may be e-mailed to: diodes-fin@diodes.com.

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