



For immediate release

USB Type-C Port Switch Enables Latest Mobile Devices to Continue Supporting Legacy Data and Audio Signals

Plano, TX – June 12, 2019 – Diodes Incorporated (Nasdaq: DIOD) today announced the PI3A6386 USB Type-C™ multimedia port switch, designed to enable manufacturers to continue supporting legacy data and analog peripherals through USB Type-C ports. As a result of the adoption of USB Type-C ports in mobile phones and tablets, manufacturers are removing other ports such as USB 2.0 and 3.5mm audio sockets. The PI3A6386 port switch enables legacy data and audio signals to be passed through the USB Type-C port, allowing consumers to continue using existing peripherals.

The performance of the PI3A6386 port switch ensures a high level of audio quality, without signal distortion or noise. It includes autonomous microphone and ground line switching, while its CMOS design delivers an ON resistance of just 1Ω for the audio switching transistor. Low crosstalk between data and audio channels was also a design priority for the PI3A6386, and it succeeds here with a crosstalk rejection of -85dB at 30kHz.

Other design features include a programmable soft-start and soft-stop time, which eliminates the pop and click that audio signals can experience when they are DC-coupled. This delivers an audio experience free from distortion. The PI3A6386 operates from a supply of between 1.7V and 5.5V, making it suitable for portable devices. It can also process signals of ±3V, which further improves the dynamic range and audio quality.

The PI3A6386 supports USB 2.0 High Speed and Full Speed signals and USB Type-C Audio Accessory Mode. The THD of -110dB is maintained from 20Hz to 20kHz with a signal of 2.0V RMS into a 32Ω load. Separate ground switches are also used for the audio and data signals, to further minimize crosstalk.

The PI3A6386 is available in the TQFN-24 package. Further information is available at www.diodes.com.

USB Type-C is a trademark of USB Implementers Forum.

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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