



Decoder IC from Diodes Incorporated is Compatible with Qualcomm Quick Charge 2.0 Protocol for Cell Phones

Plano, Texas – October 8, 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 AP4370. This device is a decoder IC for the quick charging of cell phone, tablet and similar consumer products based on Qualcomm SoCs featuring its Quick Charge (QC) technology.

By ensuring compatibility with Qualcomm's high-voltage dedicated charging port QC 2.0 protocol, this decoder provides a highly integrated and cost-effective solution for designers of chargers and adaptors that need to support the QC function. The AP4370 decodes different combinations of D+/D- signals generated by the portable device, producing V1/V2 outputs that can change either the controller's voltage reference or voltage feedback divider resistor to achieve the required constant voltage/constant current control.

The AP4370 has an over-voltage discharge feature that protects a QC 2.0 connected device when it requests a lower output voltage by accelerating the output voltage decline during the transition. If a connected device is not QC 2.0 compatible, the decoder automatically provides a 5V output configuration. The AP4370 operates from a 5V to 12V with an ultra-low static current of just 90 μ A at 5V output. Requiring few external components and benefitting from small SOT26 or TSOT26 package options, this IC offers both board space and BOM cost savings. 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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