



Microprocessor Supervisory Circuit from Diodes Incorporated Monitors System Voltage with Programmable Delay

Plano, Texas – February 14, 2018 – Diodes Incorporated (Nasdaq: DIOD), a leading global manufacturer and supplier of high-quality application specific standard products within the broad discrete, logic, analog and mixed-signal semiconductor markets, today announced the PT7M3808 family of microprocessor supervisory circuits. These devices monitor system voltages from 0.4V to 5.0V, and feature threshold accuracy from 0.5% and an adjustable delay time from 1.25ms to 10ms; this allows these small form-factor devices to enable power-on reset functionality for microprocessor and other digital systems while also consuming minimal power. Applications include notebook and desktop computers, and battery-powered portable equipment for markets ranging from data centers to security systems.

Offered in fixed-threshold versions for standard voltage rails between 0.9V and 5.0V, and with an adjustable threshold version down to 0.4V, the PT7M3808 uses a precision reference to provide a 0.5% negative-going input threshold accuracy when monitoring voltages up to 3.3V and 1% accuracy at voltages from 3.3V to 5.0V. The delay time is adjusted from 1.25ms to 10ms by connecting an external capacitor to the CT pin; a longer 20ms delay can be achieved by disconnecting the CT pin, while a 300ms delay is possible by connecting the CT pin to V_{DD} with a resistor.

The PT7M3808 has a very low quiescent current, typically 2.8 μ A, making it well-suited for battery-powered applications. Available in SOT26 and DFN2020-6 packages, the PT7M3808 takes up very little board space for both new and drop-in replacement designs. 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' 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 Shanghai, China. Diodes has assembly and test facilities located in Neuhaus, Shanghai, Jinan, Chengdu, and Yangzhou, China. 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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