

## Power Integrations' New 200 V Qspeed Diodes Combine Low Recovery Losses and Softness to Optimize Efficiency and Minimize EMI

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'Soft' switching characteristics especially beneficial for high-efficiency, high-frequency power supply secondary rectifiers and audio amplifiers

SAN JOSE, Calif.--(BUSINESS WIRE)-- **Power Integrations** (Nasdaq: **POWI**), the leader in high-voltage integrated circuits for energy-efficient power conversion, today introduced the **LQA200** series of 200 V diodes. The company's **Qspeed™** high-performance silicon diodes are based on merged-PIN technology that offers 'soft' switching and low reverse recovery charge (Qrr). This unique balance of features enables high-frequency operation and permits the use of small, inexpensive magnetic components while maximizing operational efficiency.

New LQA200 series of 200 V diodes. Qspeed(TM) high-performance silicon diodes are based on merged-PIN technology that offers 'soft' switching and low reverse recovery charge (Qrr).

(Photo: Business Wire)

Available from 10 A to 40 A in common-cathode configuration, these "soft" new 200 V diodes reduce peak reverse voltage, increasing voltage margin and enhancing operational reliability and ruggedness. The need for snubber capacitors is also reduced or even

eliminated, which further improves efficiency and lowers cost. When compared with equivalent Schottky products, the **Qspeed** diodes reduce Qrr by up to 80%, and have a 45% lower junction capacitance.

Comments Klaus Pietrczak , product marketing manager for Power Integrations: "Our new **LQA200** diodes are suitable for use in power-supply output rectification circuits for hard- or soft-switching applications such as telecom power supplies and audio amplifiers. By reducing the levels of EMI produced, designers can save space and component cost as well as improve performance with a more elegant design."

LQA200 diodes are available now in DPAK, D2PAK and TO-220 packages, ranging from \$0.40 to \$1.20 each in 10K quantities. For more details, please visit <http://www.powerint.com/en/products/qspeed-family/q-series>.

## About Power Integrations

**Power Integrations, Inc.**, is a Silicon Valley-based supplier of high-performance electronic components used in high-voltage power-conversion systems. The company's integrated circuits and diodes enable compact, energy-efficient AC-DC power supplies for a vast range of electronic products including mobile devices, TVs, PCs, appliances, smart utility meters and LED lights. CONCEPT IGBT driver systems enhance the efficiency, reliability and cost of high-power applications such as industrial motor drives, solar and wind energy systems, electric vehicles and high-voltage DC transmission. Since its introduction in 1998, Power Integrations' EcoSmart® energy-efficiency technology has prevented billions of dollars' worth of energy waste and millions of tons of carbon emissions. Reflecting the environmental benefits of the company's products, Power Integrations' stock is included in the NASDAQ® Clean Edge® Green Energy Index, The Cleantech Index®, and the Ardour Global IndexSM. For more information, including design-support tools and resources, please visit [www.powerint.com](http://www.powerint.com); visit Power Integrations' **Green Room** for a comprehensive guide to energy-efficiency standards around the world.

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Photos/Multimedia Gallery Available: <http://www.businesswire.com/multimedia/home/20130513006705/en/>

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