



Vishay Intertechnology 100 V Gen 2 TMBS® Rectifier Modules Deliver Forward Voltage Drop Down to 0.83 V in SOT-227 Package

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Devices Offer Drop-in Replacements to Reduce Conduction Losses and Increase Efficiency in Industrial Applications

MALVERN, Pa., Jan. 21, 2026 (GLOBE NEWSWIRE) -- Vishay Intertechnology, Inc. (NYSE: VSH) today introduced four new 100 V Gen 2 Trench MOS Barrier Schottky (TMBS®) rectifier modules in the compact, fully insulated SOT-227 package. Optimized for power conversion in industrial applications, the devices offer best-in-class forward voltage drop down to 0.83 V to reduce conduction losses.

The Vishay Semiconductors rectifier modules released today consist of the dual-diode 100 A [VS-QA100FA10](#), 200 A [VS-QA200FA10](#), and 400 A [VS-QA400FA10](#) in parallel configurations, and the 150 A single phase bridge [VS-QA150BA10](#). With their industry-standard SOT-227 package, the devices can be used as drop-in replacements for competing solutions to increase efficiency.

The modules combine their ultra low forward voltage drop and high current ratings with negligible Q_{rr} and high temperature operation to +150 °C. The devices are intended for high frequency converters and power supplies in welding and industrial SMPS applications, 48 V battery-powered light vehicles, and telecom equipment, and provide blocking diodes for large battery systems.

The VS-QA100FA10, VS-QA150BA10, VS-QA200FA10, and VS-QA400FA10 are RoHS-compliant and UL-approved in accordance with file E78996.

Device Specification Table:

Part #	$I_{F(AV)} / I_O$ (A)	V_R / V_{RRM} (V)	V_{FM} (V)	Configuration
VS-QA100FA10	100 per module	100	0.83	Two separate diodes, parallel
VS-QA150BA10	150	100	0.87	Single phase bridge
VS-QA200FA10	200 per module	100	0.83	Two separate diodes, parallel
VS-QA400FA10	400 per module	100	0.87	Two separate diodes, parallel

Samples and production quantities of the new TMBS rectifier modules are available now, with lead times of 18 weeks.

Vishay manufactures one of the world's largest portfolios of discrete semiconductors and passive electronic components that are essential to innovative designs in the automotive, industrial, computing, consumer, telecommunications, military, aerospace, and medical markets. Serving customers worldwide, Vishay is **The DNA of tech.**® Vishay Intertechnology, Inc. is a Fortune 1,000 Company listed on the NYSE (VSH). More on Vishay at www.Vishay.com.

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Link to product photo:

<https://www.flickr.com/photos/vishay/albums/72177720331482389/>

Links to datasheets:

<http://www.vishay.com/ppg?297111> (VS-QA100FA10)

<http://www.vishay.com/ppg?297112> (VS-QA200FA10)

<http://www.vishay.com/ppg?297142> (VS-QA150BA10)

<http://www.vishay.com/ppg?297113> (VS-QA400FA10)

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