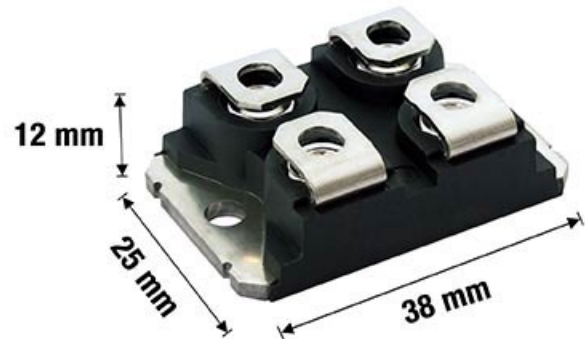


100 V Gen 2 TMBS[®] Rectifier Modules Deliver Forward Voltage Drop Down to 0.83 V in SOT-227 Package, Offer Drop-in Replacements to Reduce Conduction Losses and Increase Efficiency in Industrial Applications

Product Benefits:

- Offered in the compact, fully insulated SOT-227 package
- Low forward voltage drop down to 0.83 V
- High current ratings from 100 A to 400 A
- Two configurations available:
 - Two separate diodes, parallel
 - Single phase bridge
- Negligible Q_{rr}
- High temperature operation to +150 °C
- RoHS-compliant and UL-approved in accordance with file E78996



Market Applications:

- High frequency converters and power supplies in welding and industrial SMPS applications, 48 V battery-powered light vehicles, and telecom equipment, and blocking diodes for large battery systems

The News:

Vishay Intertechnology introduces 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.

- With their industry-standard SOT-227 package, the devices can be used as drop-in replacements for competing solutions to increase efficiency

The Key Specifications:

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



NEW PRODUCT INFORMATION



Product Group: Vishay Semiconductors, Rectifiers / **January** 2026

Availability:

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

To access the product datasheets on the Vishay Website, go to

<http://www.vishay.com/ppg?97111> (VS-QA100FA10)

<http://www.vishay.com/ppg?97112> (VS-QA200FA10)

<http://www.vishay.com/ppg?97142> (VS-QA150BA10)

<http://www.vishay.com/ppg?97113> (VS-QA400FA10)

Contact Information:

The Americas

Diodes-Americas@vishay.com

Europe

Diodes-Europe@vishay.com

Asia/Pacific

Diodes-Asia@vishay.com