



## Vishay Intertechnology 2 A and 3 A TMBS® Rectifiers in Low Profile SMP Package Increase Power Density and Efficiency; Feature Reverse Voltages From 45 V to 200 V and Forward Voltage Drop Down to 0.36 V

### Product Benefits:

- High current rating to 3 A
- Available in eSMP® series low profile SMP (DO-220AA) package
- Wide range of reverse voltages from 45 V to 200 V
- Low forward voltage drop down to 0.36 V for 2 A and 0.37 V for 3 A devices
- Available in AEC-Q101 qualified versions for automotive applications
- Maximum operating junction temperature up to +175 °C
- MSL moisture sensitivity level of 1, per J-STD-020, LF maximum peak of +260 °C
- RoHS-compliant and halogen-free



### Market Applications:

- High frequency inverters, DC/DC converters, and freewheeling and polarity protection diodes for commercial, industrial, and automotive applications

### The News:

Vishay Intertechnology expands its offering of surface-mount TMBS® Trench MOS Barrier Schottky rectifiers with 16 new 2 A and 3 A devices in the eSMP series low profile SMP (DO-220AA) package.

- 3 A rating is the industry's highest for the SMP package, increasing power density
- Low forward voltage drop reduces power losses and improves efficiency

### The Key Specifications:

Part #	I <sub>F(AV)</sub> (A)	V <sub>RRM</sub> (V)	I <sub>FSM</sub> (A)	V <sub>F</sub> at I <sub>F</sub> and T <sub>J</sub>			T <sub>J</sub> max. (°C)
				V <sub>F</sub> (V)	I <sub>F</sub> (A)	T <sub>A</sub> (°C)	
V2PL45L	2	45	50	0.36	2	125	150
V3PL45	3	45	80	0.37	3	125	150
V2P6X	2	60	50	0.51	2	125	175
V2P6L	2	60	50	0.45	2	125	150
V2PM6L	2	60	50	0.48	2	125	175
V3P6	3	60	60	0.48	3	125	150
V3P6L	3	60	80	0.44	3	125	150
V3PM6	3	60	80	0.47	3	125	175
V2PM10L	2	100	50	0.58	2	125	175
V3PM10	3	100	80	0.58	3	125	175
V2PM12L	2	120	50	0.6	2	125	175
V3PM12	3	120	80	0.61	3	125	175
V2PM15L	2	150	50	0.64	2	125	175
V3PM15	3	150	80	0.64	3	125	175
V2P22L	2	200	50	0.68	2	125	175
V3P22	3	200	60	0.7	3	125	175



## NEW PRODUCT INFORMATION



**Product Group:** Vishay General Semiconductor, Rectifiers / **January 2020**

### **Availability:**

Samples and production quantities of the new TMBS® rectifiers are available now, with lead times of eight weeks for larger orders.

To access the product datasheets on the Vishay Website, go to <http://www.vishay.com/doc?48626> (TMBS® Rectifiers in SMP (DO-220AA) Package)

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