



## DIODES

### TMBS<sup>®</sup> Rectifiers

## 45 V to 200 V TMBS<sup>®</sup> Rectifiers in SMPA Package Cut Power Losses and Increase Efficiency in Automotive and Commercial Applications



### KEY BENEFITS

- SMPA (DO-221BC) package with very low profile: 0.95 mm typical height
- Current ratings from 3 A to 8 A
- Low forward voltage drop down to 0.37 V at 3 A
- Low power losses and high efficiency
- Maximum operating junction temperature up to 175 °C
- Trench MOS Schottky technology
- AEC-Q101 qualified

### APPLICATIONS

- For use in high frequency DC/DC converters, switching power supplies, freewheeling diodes, OR-ing diodes, and reverse battery protection in commercial, industrial, and automotive applications

### RESOURCES

- Datasheets: see next page for products
- For technical questions contact:  
[DiodesAmerica@vishay.com](mailto:DiodesAmerica@vishay.com), [DiodesAsia@vishay.com](mailto:DiodesAsia@vishay.com), [DiodesEurope@vishay.com](mailto:DiodesEurope@vishay.com)
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)





# DIODES

## TMBS<sup>®</sup> Rectifiers

Vishay's 45 V to 200 V TMBS<sup>®</sup> Trench MOS Barrier Schottky rectifiers feature high current density with current ratings from 3 A to 8 A in the low profile SMPA (DO-221BC) package. The 45 V, 60 V, 100 V, 120 V, 150 V, and 200 V devices are AEC-Q101 qualified for automotive applications, while the 50 V rectifiers are ideal for commercial applications, especially smartphone and tablet chargers.

I <sub>F</sub> (A)	Part Number	V <sub>RRM</sub> (V)	V <sub>F</sub> at I <sub>F</sub> (T <sub>A</sub> = 125 °C)		I <sub>FSM</sub> (A)	T <sub>J</sub> Max. (°C)	AEC-Q101 Qualified
			V <sub>F</sub> (V)	I <sub>F</sub> (A)			
3	<a href="#">V3PAL45</a>	45	0.37	3	80	150	Yes
	<a href="#">V3PAN50-M3</a>	50	0.4	3	80	150	No
4	<a href="#">V4PAL45</a>	45	0.41	4	80	150	Yes
	<a href="#">V4PAN50-M3</a>	50	0.46	4	80	150	No
5	<a href="#">V5PA22</a>	200	0.69	5	90	175	Yes
8	<a href="#">V8PA6</a>	60	0.49	8	100	150	Yes
	<a href="#">V8PA10</a>	100	0.61	8	100	150	Yes
	<a href="#">V8PA12</a>	120	0.64	8	100	150	Yes
	<a href="#">V8PA15</a>	150	0.68	8	100	150	Yes
	<a href="#">V8PA22</a>	200	0.7	8	100	175	Yes
	<a href="#">V8PAL45</a>	45	0.4	8	120	150	Yes
	<a href="#">V8PAL50-M3</a>	50	0.4	8	120	150	No
	<a href="#">V8PAM10</a>	100	0.62	8	100	175	Yes
	<a href="#">V8PAM12</a>	120	0.65	8	100	175	Yes
	<a href="#">V8PAN50-M3</a>	50	0.41	8	120	150	No

单击下面可查看定价，库存，交付和生命周期等信息

[>>Vishay\(威世\)](#)