

# Selector Guide

Vishay General Semiconductor



<b>TMBS® (TRENCH MOS BARRIER SCHOTTKY) RECTIFIERS</b>								
I <sub>F(AV)</sub> (A)	DEVICE (1)	SOURCE (3)	PACKAGE		V <sub>BR</sub> RANGE (V)	MAXIMUM V <sub>F</sub> AT I <sub>F</sub>		PAGE
			FAMILY	TYPE		(V)	(A)	
8	V8P10	G	Plastic SMD	TO-277A (SMPC)	100	0.68	8	468
	V10P10	G	Plastic SMD	TO-277A (SMPC)	100	0.68	10	472
10	MBR1090 & MBR10100	G	Plastic PowerPAK	TO-220AC	90 to 100	0.80	10	476
	MBRF1090 & MBRF10100	G	Isolated PowerPAK	ITO-220AC	90 to 100	0.80	10	476
	MBRB1090 & MBRB10100	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	90 to 100	0.80	10	476
	V10150C	G	Plastic PowerPAK (2)	TO-220AB	150	1.41	5	480
	VF10150C	G	Isolated PowerPAK (2)	ITO-220AB	150	1.41	5	480
	VB10150C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	150	1.41	5	480
	VI10150C	G	Plastic PowerPAK (2)	TO-262AA	150	1.41	5	480
	V10150S	G	Plastic PowerPAK	TO-220AB	150	1.20	10	484
	VF10150S	G	Isolated PowerPAK	ITO-220AB	150	1.20	10	484
	VB10150S	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	150	1.20	10	484
12	VI10150S	G	Plastic PowerPAK	TO-262AA	150	1.20	10	484
	V12P10	G	Plastic SMD	TO-277A (SMPC)	100	0.70	12	488
20	V12P12	G	Plastic SMD	TO-277A (SMPC)	120	0.80	12	492
	MBR2090CT & MBR20100CT	G	Plastic PowerPAK (2)	TO-220AB	100	0.80	10	496
	MBRF2090CT & MBRF20100CT	G	Isolated PowerPAK (2)	ITO-220AB	100	0.80	10	496
	MBRB2090CT & MBRB20100CT	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	100	0.80	10	496
	V20100C	G	Plastic PowerPAK (2)	TO-220AB	100	0.79	10	500
	VF20100C	G	Isolated PowerPAK (2)	ITO-220AB	100	0.79	10	500
	VB20100C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	100	0.79	10	500
	VI20100C	G	Plastic PowerPAK (2)	TO-262AA	100	0.79	10	500
	V20100R	G	Plastic PowerPAK (2)	TO-220AB	100	0.90	10	504
	VF20100R	G	Isolated PowerPAK (2)	ITO-220AB	100	0.90	10	504
	V20100S	G	Plastic PowerPAK	TO-220AB	100	0.90	20	508
	VB20100S	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	100	0.90	20	508
	VF20100S	G	Isolated PowerPAK	ITO-220AB	100	0.90	20	508
	VI20100S	G	Plastic PowerPAK	TO-262AA	100	0.90	20	508
	V20100SG	G	Plastic PowerPAK	TO-220AB	100	1.07	20	512
	VF20100SG	G	Isolated PowerPAK	ITO-220AB	100	1.07	20	512
	VI20100SG	G	Plastic PowerPAK	TO-262AA	100	1.07	20	512
	V20120C	G	Plastic PowerPAK (2)	TO-220AB	120	0.90	10	516
	VF20120C	G	Isolated PowerPAK (2)	ITO-220AB	120	0.90	10	516
	VB20120C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	120	0.90	10	516
	VI20120C	G	Plastic PowerPAK (2)	TO-262AA	120	0.90	10	516
	V20120S	G	Plastic PowerPAK	TO-220AB	120	1.12	20	520
	VF20120S	G	Isolated PowerPAK	ITO-220AB	120	1.12	20	520
	VB20120S	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.12	20	520
	VI20120S	G	Plastic PowerPAK	TO-262AA	120	1.12	20	520
	V20120SG	G	Plastic PowerPAK	TO-220AB	120	1.33	20	524
	VF20120SG	G	Isolated PowerPAK	ITO-220AB	120	1.33	20	524
	VB20120SG	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.33	20	524
	VI20120SG	G	Plastic PowerPAK	TO-262AA	120	1.33	20	524
	V20150C	G	Plastic PowerPAK (2)	TO-220AB	150	1.20	10	528
VF20150C	G	Isolated PowerPAK (2)	ITO-220AB	150	1.20	10	528	
VB20150C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	150	1.20	10	528	
VI20150C	G	Plastic PowerPAK (2)	TO-262AA	150	1.20	10	528	
V20150S	G	Plastic PowerPAK	TO-220AB	150	1.43	20	532	
VF20150S	G	Isolated PowerPAK	ITO-220AB	150	1.43	20	532	
VB20150S	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	150	1.43	20	532	
VI20150S	G	Plastic PowerPAK	TO-262AA	150	1.43	20	532	



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			FAMILY	TYPE		(V)	(A)	
20 cont'd	V20150SG	G	Plastic PowerPAK	TO-220AB	150	1.60	20	536
	VF20150SG	G	Isolated PowerPAK	ITO-220AB	150	1.60	20	536
	VB20150SG	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	150	1.60	20	536
	VI20150SG	G	Plastic PowerPAK	TO-262AA	150	1.60	20	536
	V20200C	G	Plastic PowerPAK (2)	TO-220AB	200	1.60	10	540
	VF20200C	G	Isolated PowerPAK (2)	ITO-220AB	200	1.60	10	540
	VB20200C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	200	1.60	10	540
	VI20200C	G	Plastic PowerPAK (2)	TO-262AA	200	1.60	10	540
30	V30100C	G	Plastic PowerPAK (2)	TO-220AB	100	0.80	15	544
	VF30100C	G	Isolated PowerPAK (2)	ITO-220AB	100	0.80	15	544
	VB30100C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	100	0.80	15	544
	VI30100C	G	Plastic PowerPAK (2)	TO-262AA	100	0.80	15	544
	V30100S	G	Plastic PowerPAK	TO-220AB	100	0.91	30	548
	VF30100S	G	Isolated PowerPAK	ITO-220AB	100	0.91	30	548
	VB30100S	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	100	0.91	30	548
	VI30100S	G	Plastic PowerPAK	TO-262AA	100	0.91	30	548
	V30100SG	G	Plastic PowerPAK	TO-220AB	120	1.00	30	552
	VF30100SG	G	Isolated PowerPAK	ITO-220AB	120	1.00	30	552
	VB30100SG	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.00	30	552
	VI30100SG	G	Plastic PowerPAK	TO-262AA	120	1.00	30	552
	V30120C	G	Plastic PowerPAK (2)	TO-220AB	120	0.97	15	556
	VF30120C	G	Isolated PowerPAK (2)	ITO-220AB	120	0.97	15	556
	VB30120C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	120	0.97	15	556
	VI30120C	G	Plastic PowerPAK (2)	TO-262AA	120	0.97	15	556
	V30120S	G	Plastic PowerPAK	TO-220AB	120	1.10	30	560
	VF30120S	G	Isolated PowerPAK	ITO-220AB	120	1.10	30	560
	VB30120S	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.10	30	560
	VI30120S	G	Plastic PowerPAK	TO-262AA	120	1.10	30	560
	V30120SG	G	Plastic PowerPAK	TO-220AB	120	1.28	30	564
	VF30120SG	G	Isolated PowerPAK	ITO-220AB	120	1.28	30	564
	VB30120SG	G	PowerPAK SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.28	30	564
	VI30120SG	G	Plastic PowerPAK	TO-262AA	120	1.28	30	564
	V30150C	G	Plastic PowerPAK (2)	TO-220AB	150	1.36	15	568
	VF30150C	G	Isolated PowerPAK (2)	ITO-220AB	150	1.36	15	568
	VB30150C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	150	1.36	15	568
	VI30150C	G	Plastic PowerPAK (2)	TO-262AA	150	1.36	15	568
	V30200C	G	Plastic PowerPAK (2)	TO-220AB	200	1.10	15	572
	VB30200C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	200	1.10	15	572
VI30200C	G	Plastic PowerPAK (2)	TO-262AA	200	1.10	15	572	
V30100P	G	Plastic PowerPAK (2)	TO-247AD (TO-3P)	100	0.85	15	576	
40	V40100C	G	Plastic PowerPAK (2)	TO-220AB	100	0.73	20	579
	VF40100C	G	Isolated PowerPAK (2)	ITO-220AB	100	0.73	20	579
	VB40100C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	100	0.73	20	579
	VI40100C	G	Plastic PowerPAK (2)	TO-262AA	100	0.73	20	579
	V40100G	G	Plastic PowerPAK (2)	TO-220AB	100	0.81	20	583
	VF40100G	G	Isolated PowerPAK (2)	ITO-220AB	100	0.81	20	583
	VB40100G	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	100	0.81	20	583
	VI40100G	G	Plastic PowerPAK (2)	TO-262AA	100	0.81	20	583
	V40120C	G	Plastic PowerPAK (2)	TO-220AB	120	0.88	20	587
	VF40120C	G	Isolated PowerPAK (2)	ITO-220AB	120	0.88	20	587
VB40120C	G	PowerPAK SMD (2)	TO-263AB (D <sup>2</sup> PAK)	120	0.88	20	587	



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			FAMILY	TYPE		(V)	(A)		
40 cont'd	<b>VI40120C</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-262AA	120	0.88	20	587	
	<b>V40150C</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-220AB	150	1.43	20	591	
	<b>VF40150C</b>	G	Isolated PowerPAK <sup>(2)</sup>	ITO-220AB	150	1.43	20	591	
	<b>VB40150C</b>	G	PowerPAK SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	1.43	20	591	
	<b>VI40150C</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-262AA	150	1.43	20	591	
	<b>V40100P</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-247AD (TO-3P)	100	0.73	20	595	
50	<b>V40100PG</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-247AD (TO-3P)	100	0.81	20	598	
	<b>V50100P</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-247AD (TO-3P)	100	0.78	25	602	
60	<b>V60100C</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-220AB	100	0.79	30	605	
	<b>VB60100C</b>	G	PowerPAK SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	100	0.79	30	605	
	<b>V60120C</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-220AB	120	0.95	30	609	
	<b>V60100P</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-247AD (TO-3P)	100	0.79	30	613	
	<b>V60200PG</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-247AD (TO-3P)	200	1.48	30	617	
80	<b>V80100P</b>	G	Plastic PowerPAK <sup>(2)</sup>	TO-247AD (TO-3P)	100	0.78	40	620	

**Notes:**

- (1) **Bold text = new products**
- (2) Dual center-tapped device ( $V_F$  limit at  $I_F$  is per diode)
- (3) Source: G = formerly General Semiconductor