LOW VF SCHOTTKY RECTIFIER 45 Volt

VOLTAGE

FEATURES

- · Ideal for automated placement
- Low forward voltage drop, low power loss
- High efficiency Operation
- · Low thermal resistance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

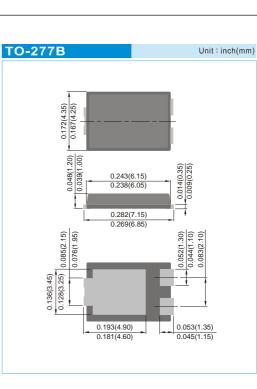
CURRENT

MECHANICAL DATA

- Case : TO-277B, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.0038 ounces, 0.1088 grams
- Marking : Part number



10 Ampere



MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage			45	V
Maximum RMS Voltage			32	V
Maximum DC Blocking Voltage			45	V
Maximum Average Rectified Output Current			10	А
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load		I FSM	275	А
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Reja Rejc	110 8	°C/W
Operating junction temperature range and Storage temperature range			-55 to + 150	°C

NOTES:1.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area. 2.Mounted on a FR4 PCB, single-sided copper, mini pad.

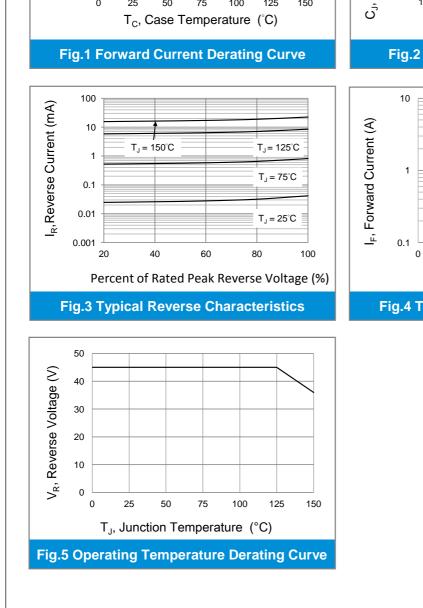


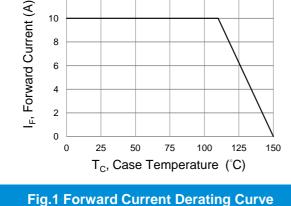
SVM1045VB

ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA	T _A =25°C	45	-	-	V
Instantaneous forward voltage	VF	I F=3A I F=5A I F=10A	Ta=25°C	- -	0.34 0.38 0.44	- - 0.47	V
		I F=3A I F=5A I F=10A	Ta=125°C	- -	0.27 0.32 0.41	- - -	V
Reverse current		Vr=36V	Ta=25°C	-	32	-	μA
	l r	Vr=45V	TA=25°C TA=125°C	-	- 8.6	0.25 -	mA mA







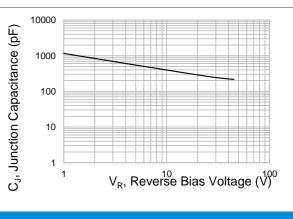
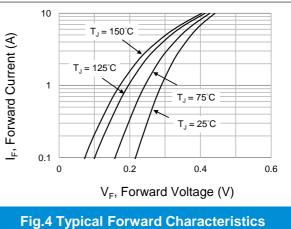


Fig.2 Typical Junction Capacitance





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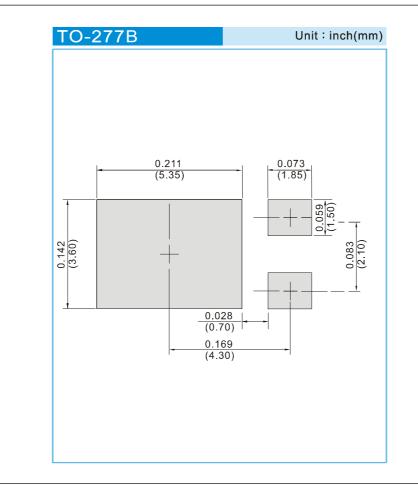
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SVM1045VB

MOUNTING PAD LAYOUT

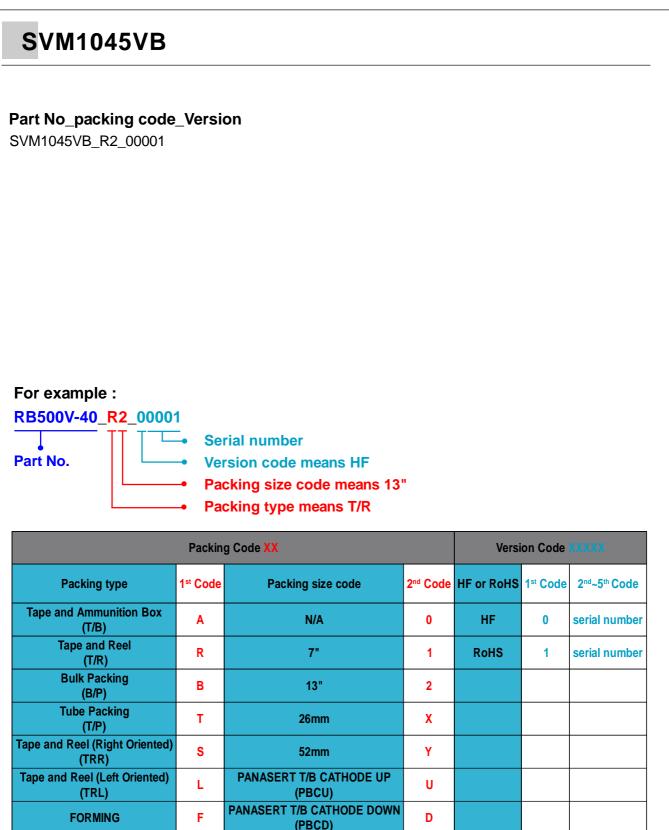


ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel









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