LOW VF SCHOTTKY RECTIFIER 45 Volt

VOLTAGE

FEATURES

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

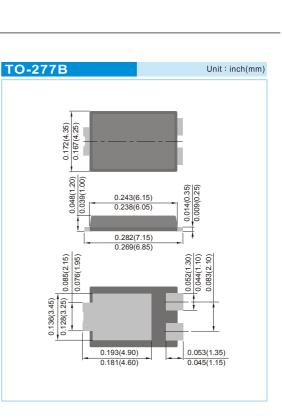
CURRENT

MECHANICAL DATA

Case : TO-277B, Plastic Terminals : Solderable per MIL-STD-750, Method 2026 Weight: 0.0038 ounces, 0.1088 grams Marking:SVM1045VB



10 Ampere



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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		Vrrm	45	V
Maximum RMS Voltage		Vrms	32	V
Maximum DC Blocking Voltage			45	V
Maximum Average Rectified Output Current		l f(AV)	10	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)		Ігѕм	275	A
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Roja Rojc	110 8	°C/W
Operating junction temperature range and Storage temperature range		Tj,Tstg	-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.



ELECTRICAL CHARACTERISTICS(T_A=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	IF=3A IF=5A IF=10A IF=3A	Ta=25°C	- - -	0.34 0.38 0.44 0.27	- - 0.47	V
		IF=5A IF=10A	Ta=125°C	-	0.32 0.41	-	V
Reverse current	l r	Vr=36V	Ta=25°C	-	32	-	μA
		Vr=45V	Ta=25°C Ta=125°C	-	- 8.6	0.25 -	mA mA

RATING AND CHARACTERISTIC CURVES

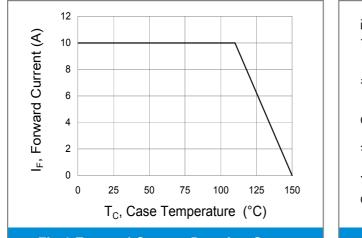
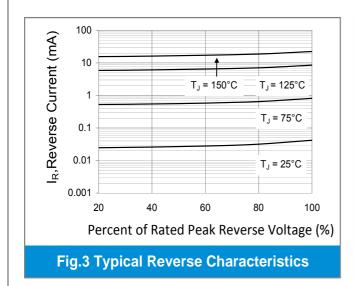


Fig.1 Forward Current Derating Curve



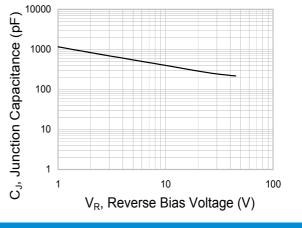
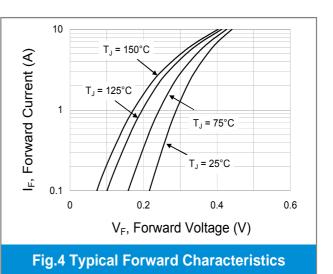


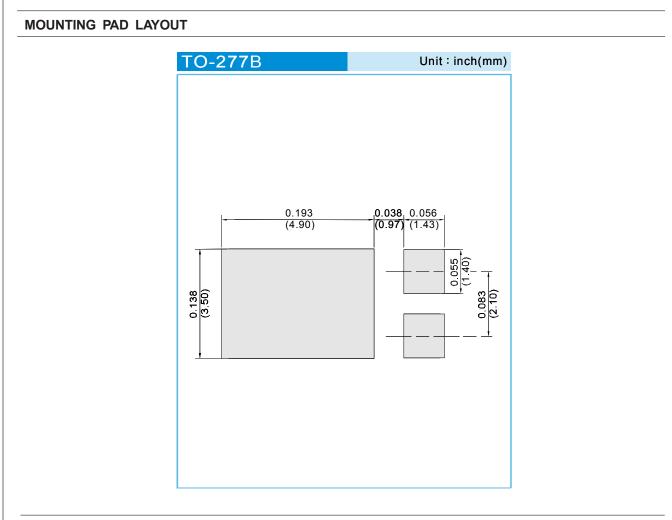
Fig.2 Typical Junction Capacitance



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ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version SVM1045VB_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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