LOW VF SCHOTTKY RECTIFIER 45 Volts

VOLTAGE

FEATURES

- · Ideal for automated placement
- · Low forward voltage drop, low power losses
- · High efficiency Operation
- · Low thermal resistance
- · Ultra thin profile package for space constrained utilization
- · Package suitable for automated handling
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

CURRENT

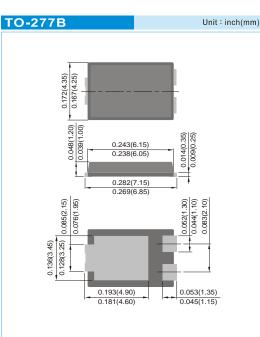
MECHANICAL DATA

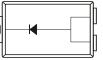
Case : TO-277B, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight: 0.0038 ounces, 0.1088 grams

Marking:SVM1045V2B





10 Amperes

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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		Vrrm	45	V
Maximum RMS Voltage		Vrms	32	V
Maximum DC Blocking Voltage		VR	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)		IFSM	275	A
Typical Junction capacitance	Vr=4V,1MHz	C	860	рF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Roja Rojc	110 13	°C/W
rating junction temperature range and Storage temperature range		TJ,TSTG	-55 to + 150	°C

NOTES:

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



SVM1045V2B

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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA	T₄=25°C	45	-	-	V
Instantaneous forward voltage	VF	IF=1A IF=5A IF=10A IF=1A	TA=25°C	- - -	0.28 0.36 0.41 0.18	- - 0.44 -	V
		I⊧=5A I⊧=10A	Ta=125ºC	-	0.28 0.36	-	V
Reverse current	Ir	Vr=36V	Ta=25°C	-	70	-	μA
		VR=45V	Ta=25°C Ta=125°C	-	- 35	220 -	μA mA

RATING AND CHARACTERISTIC CURVES

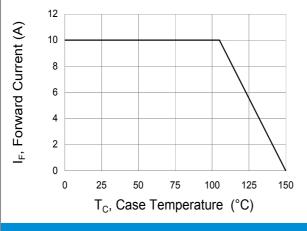
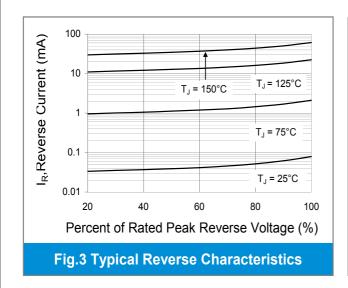


Fig.1 Forward Current Derating Curve



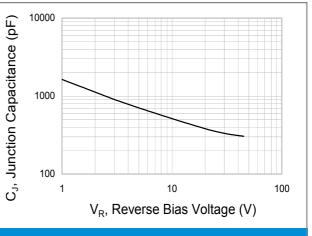
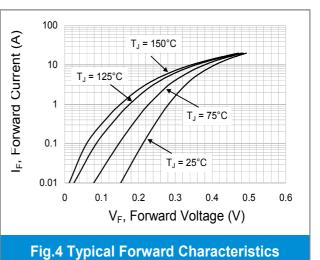


Fig.2 Typical Junction Capacitance

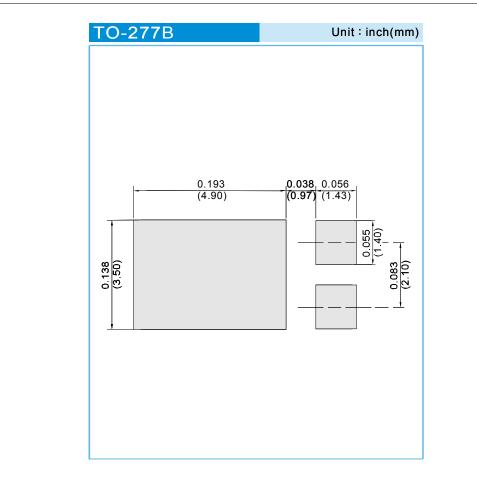






SVM1045V2B





ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





SVM1045V2B

Part No_packing code_Version

SVM1045V2B_R2_00001 SVM1045V2B_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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