



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volts CURRENT 10 Amperes

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 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

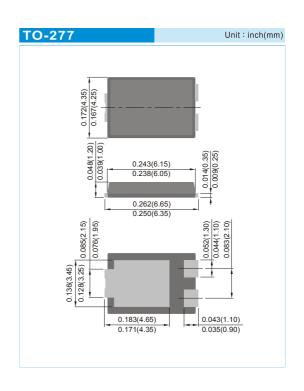
Case: TO-277, Plastic

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

Weight: 0.0037 ounces, 0.1073 grams

Marking:SVM1045V2





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

PARAMETER		SYMBOL VALUE		
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	А
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)		İFSM	275	А
Typical Junction capacitance	VR=4V,1MHz	CJ	860	pF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Roja Rojc	110 13	°C/W
perating junction temperature range and Storage temperature range		Тл,Тѕтс	-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.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	IR=0.5mA	Ta=25°C	45	-	-	V
Instantaneous forward voltage	VF	IF=1A IF=5A IF=10A	Ta=25°C	- - -	0.28 0.36 0.41	- - 0.44	V
		IF=1A IF=5A IF=10A	Ta=125°C	- - -	0.18 0.28 0.36	- - -	V
Reverse current	l _R	V _R =36V	Ta=25°C	-	70	-	μΑ
		V _R =45V	Ta=25°C Ta=125°C	-	- 35	220 -	μA mA

RATING AND CHARACTERISTIC CURVES

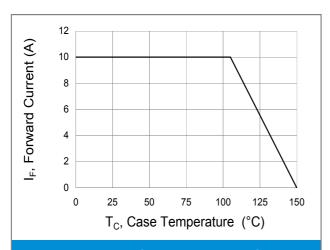


Fig.1 Forward Current Derating Curve

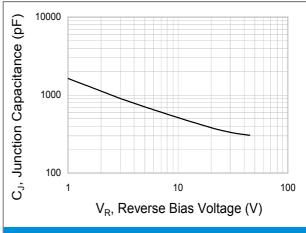


Fig.2 Typical Junction Capacitance

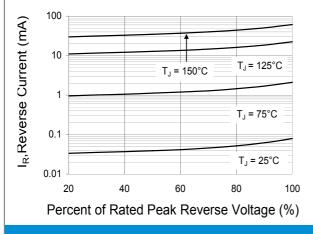


Fig.3 Typical Reverse Characteristics

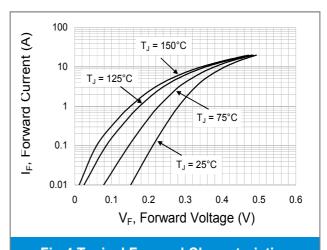
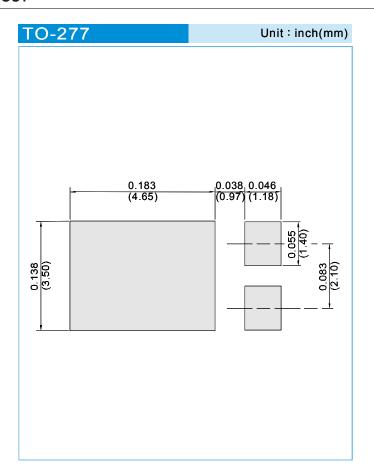


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel

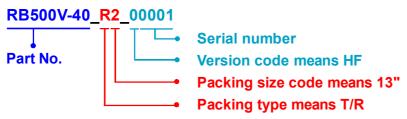




Part No_packing code_Version

SVM1045V2_R2_00001 SVM1045V2_00001

For example:



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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