



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)

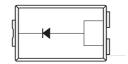
MECHANICAL DATA

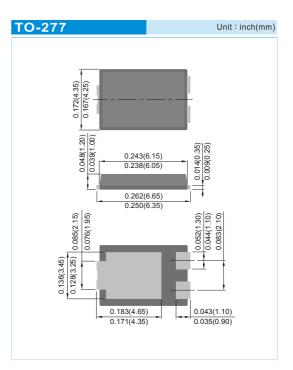
Case: TO-277, Plastic

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	UNIT	
Maximum Recurrent Peak Reverse Voltage		VRRM	45	٧
Maximum RMS Voltage		VRMS	32	٧
Maximum DC Blocking Voltage		VR	45	٧
Maximum Average Rectified Output Current		l f(AV)	10	Α
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)		İfsm	275	А
Typical Junction capacitance	V _R =4V,1MHz	C	860	pF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Roja Rojc	110 13	°C/W
Operating 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.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	Ta=25°C	45	-	-	٧
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	VR=36V	Ta=25°C	-	70	-	μΑ
		V _R =45V	Ta=25°C Ta=125°C	-	- 35	220	μA mA

RATING AND CHARACTERISTIC CURVES

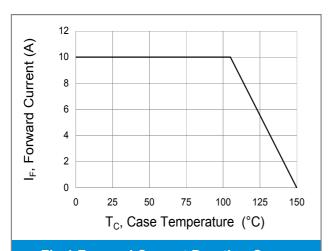


Fig.1 Forward Current Derating Curve

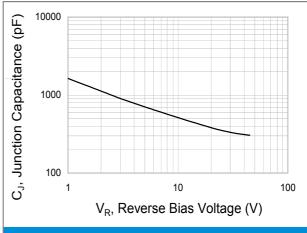


Fig.2 Typical Junction Capacitance

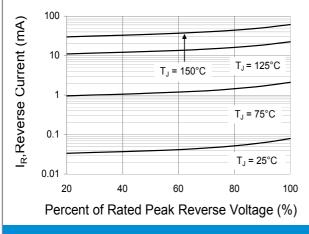


Fig.3 Typical Reverse Characteristics

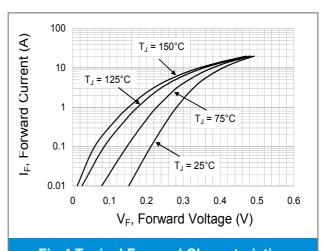
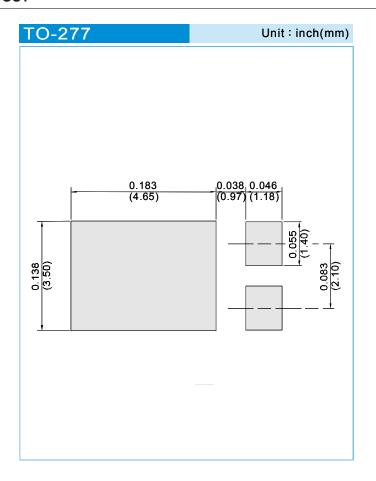


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel

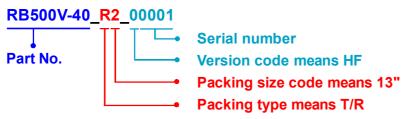




Part No_packing code_Version

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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