



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volts CURRENT 15 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 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

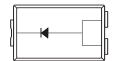
MECHANICAL DATA

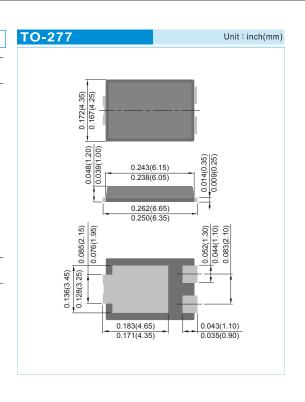
Case: TO-277, Plastic

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

Weight: 0.0037 ounces, 0.1073 grams

Marking: SVM1545L





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)	15	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	275	Α
Typical Thermal Resistance	(Note 1) (Note 2)	R⊕JC R⊕JA	6 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		Тл,Твтс	-55 to + 150	°C

NOTES:

- 1. Mounted on an FR4 PCB, single-sided copper, with 10*10cm*0.5mm 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	I R=0.5mA	T _A =25°C	45	-	-	V
Instantaneous forward voltage	VF		Ta=25°C		0.28 0.35 0.43	- - 0.49	V
			T _A =125°C		0.17 0.27 0.38	- - -	V
Reverse current	l R	V _R =36V	T _A =25°C	-	55	-	μΑ
		V _R =45V	T _A =25°C T _A =125°C	-	- 20	320 -	μA mA

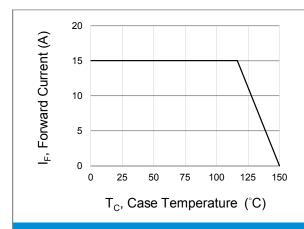


Fig.1 Forward Current Derating Curve

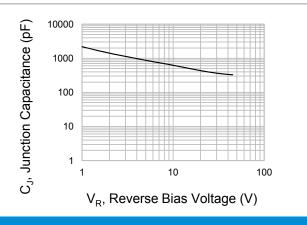


Fig.2 Typical Junction Capacitance

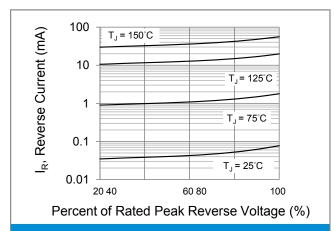


Fig.3 Typical Reverse Characteristics

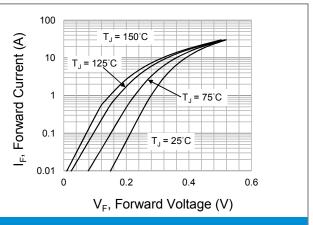
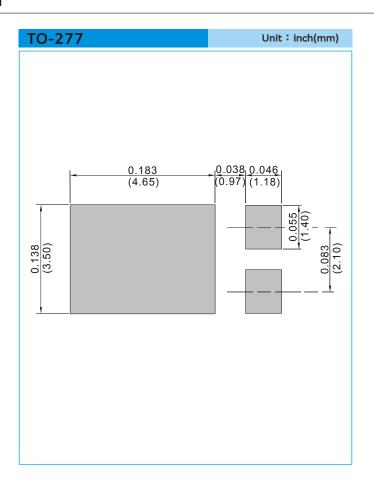


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

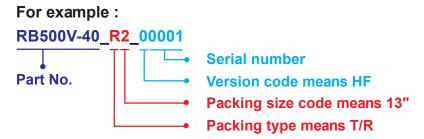
Packing information
 T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM1545L_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)	A	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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