



### **ULTRA LOW VF SCHOTTKY RECTIFIER**

VOLTAGE 50 Volt CURRENT 15 Ampere

#### **FEATURES**

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

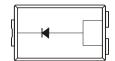
#### **MECHANICAL DATA**

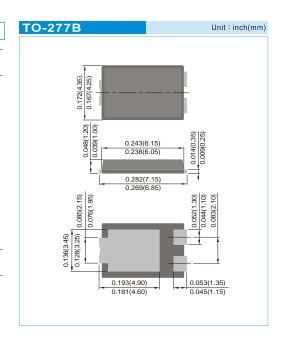
Case: TO-277B, Plastic

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

Weight: 0.0038 ounces, 0.1088 grams

Marking: Part number





#### MAXIMUM RATINGS(Ta=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT	
Maximum Recurrent Peak Reverse Voltage		VRRM	50	V	
Maximum RMS Voltage		VRMS	35	٧	
Maximum DC Blocking Voltage		VR	50	V	
Maximum Average Rectified Output Current		l f(AV)	15	А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		İfsm	280	Α	
Typical Thermal Resistance	(Note 1) (Note 2)	R⊕JA R⊕JC	110 5.5	°C/W	
Operating Junction Temperature Range And Storage Temperature Range		Тл,Твтс	-55 to + 150	°C	

NOTES: 1.Mounted on a FR4 PCB, single-sided copper, mini pad.

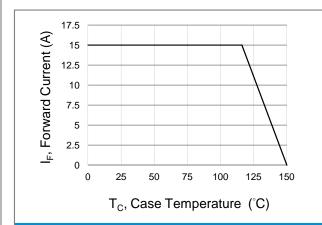
2.Mounted on a 10cm\*10cm\*0.5mm copper pad area



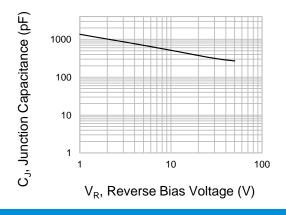


### ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	T <sub>A</sub> =25°C	50	-	-	V
Instantaneous forward voltage	VF	F=1A   F=5A   F=15A   F=1A   F=5A	Ta=25°C Ta=125°C		0.28 0.35 0.45 0.18 0.28	- 0.51 - -	V
		VR=40V		-	60	-	μА
Reverse current	l R	VR=50V	T <sub>A</sub> =25°C T <sub>A</sub> =125°C	-	- 25	320	μA mA



**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

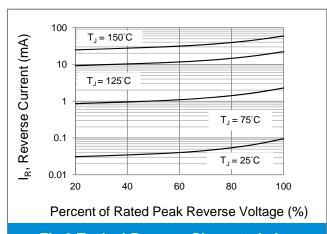


Fig.3 Typical Reverse Characteristics

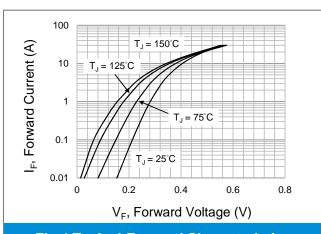
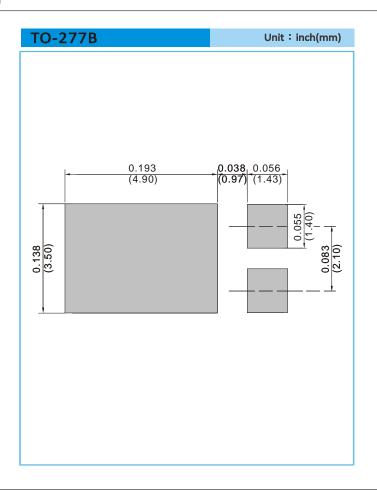


Fig.4 Typical Forward Characteristics





### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

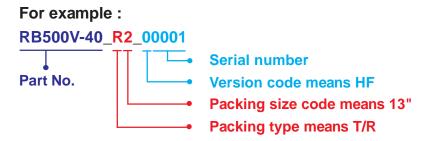
Packing information
 T/R - 5K per 13" plastic Reel





## Part No\_packing code\_Version

SVM1550VB\_R2\_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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	Х			
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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