



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 120 Volt CURRENT 12 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

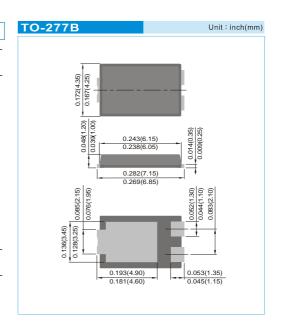
Case: TO-277B, Plastic

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	120	V
Maximum RMS Voltage		VRMS	85	٧
Maximum DC Blocking Voltage		VR	120	٧
Maximum Average Rectified Output Current		l F(AV)	12	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	200	А
Typical Thermal Resistance	(Note 2) (Note 1)	Roja Rojc	110 3	°C/W
Operating Junction Temperature Range And Storage Temperature Range		ТЈ,Тѕтс	-55 to + 150	°C

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

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





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	T _A =25°C	120	-	-	V
Instantaneous forward voltage	VF	I F=1A I F=6A I F=12A I F=1A I F=6A	T _A =25°C	- - -	0.4 0.59 0.71 0.29 0.51	- - 0.77 - -	V
Reverse current	l R	VR=96V	T _A =25°C	-	10	-	μА
		VR=120V	T _A =25°C T _A =125°C	-	- 35	100 -	μA mA





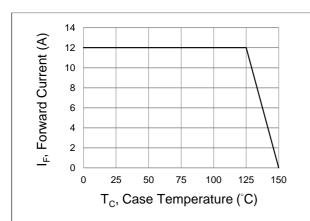


Fig.1 Forward Current Derating Curve

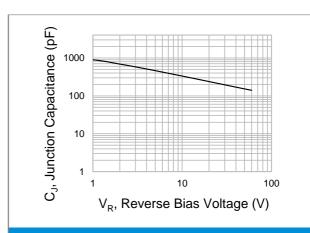


Fig.2 Typical Junction Capacitance

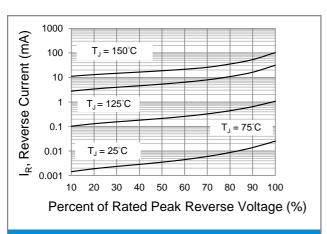


Fig.3 Typical Reverse Characteristics

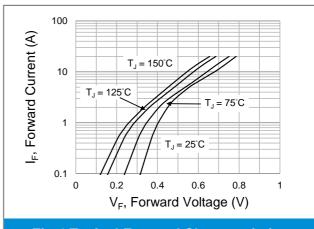


Fig.4 Typical Forward Characteristics

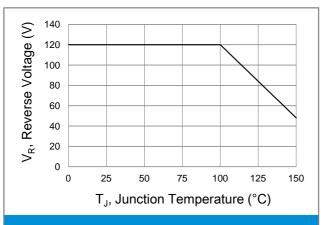
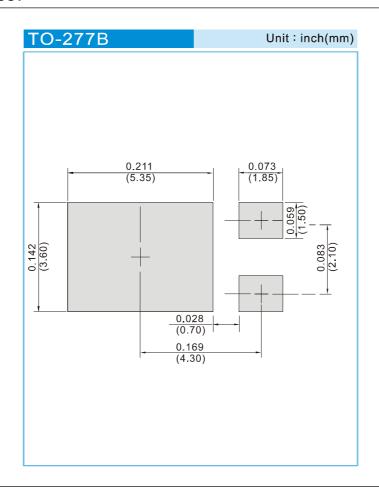


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel

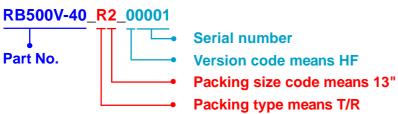




Part No_packing code_Version

SVC12120VB_R2_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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