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

CURRENT

12 Ampere

## VOLTAGE FEATURES

PAN

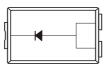
- · Ideal for automated placement
- Ultra Low forward voltage drop, low power loss

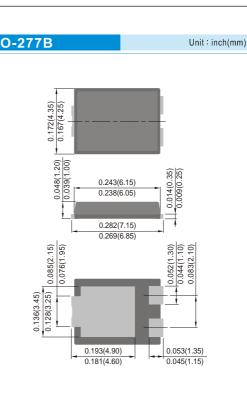
100 Volt

- · 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 : SVT12100VB





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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage			100	V
Maximum RMS Voltage			70	V
Maximum DC Blocking Voltage			100	V
Maximum Average Rectified Output Current			12	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	200	А
Typical Junction Capacitance (VR=4V, f=1MHz)		Сл	1200	pF
Typical Thermal Resistance	(Note 1) (Note 2)	Rejic Rejia	3 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		Тј,Тѕтс	-55 to + 150	°C

#### NOTES :

1.Mounted on an FR4 PCB, single-sided copper, with 10cm\*10cm\*0.5mm copper pad area 2.Mounted on an FR4 PCB, single-sided copper, mini pad.

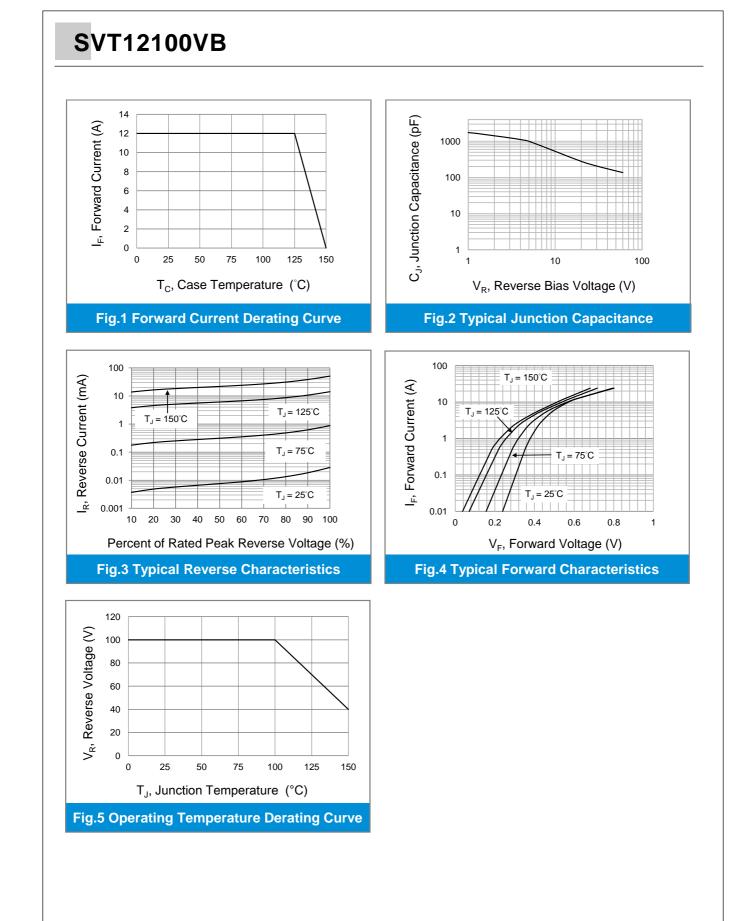


#### **TO-277B**



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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA		100	-	-	V
Instantaneous forward voltage	VF	F=1A   F=5A   F=12A   F=1A   F=5A	TJ=25°C TJ=125°C	- - - - -	0.38 0.48 0.61 0.26 0.42	- - 0.67 - -	V V
Reverse current	l r	I F=12A VR=70V VR=100V	TJ=25°C TJ=125°C TJ=25°C TJ=125°C TJ=125°C		0.57 10.6 7.5 - 14	- - 100	μA mA μA mA

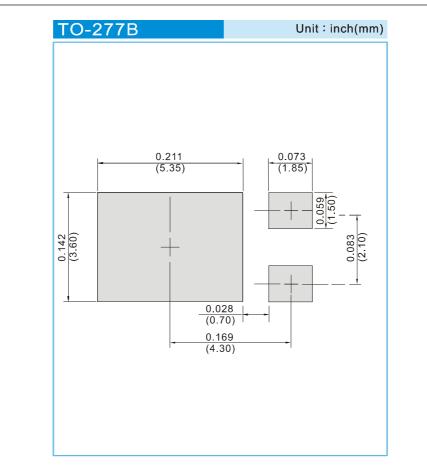








#### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





### Part No\_packing code\_Version

SVT12100VB\_R2\_00001

### For example :

RB500V-40\_R2\_00001

Part No.

- Serial number

• Version code means HF

- -• Packing size code means 13"
- Packing type means T/R

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)	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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