SEM CONDUCTOR						
SVT101	20VB					
ULTRA LOV	V VF SCHO	TTKY BAR	RIER REC	TIFIER		
Voltage	120 V	Current	10 A	TO-277B		Unit : inch(mm)
<ul> <li>High efficiency op</li> <li>Low thermal resist</li> <li>Ultra thin profile p</li> <li>Easy pick and plat</li> <li>Lead free in com</li> </ul>	voltage drop, low po peration stance package for space co ace package suitable pliance with EU RoH pompound as per IEC	onstrained utilizatior for automated han S 2011/65/EU direc	dling tive	.15) .95) .0039(1.00) .0172(4.35) .0.167(4.35)	0.282(7.15) 0.269(6.85)	30) - 11 0.014(0.35) .10) - 0.009(0.25)
	r plated, solderable p ounces, 0.1088 grams	-	ethod 2026		0.193(4.90)	0.053(1.35) 0.045(1.15)

Maximum Ratings And Electrical Characteristics ( $T_A=25^{\circ}C$  unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage	Vrrm	120	V		
Maximum rms voltage	Vrms	84	V		
Maximum dc blocking voltage	Vr	120	V		
Maximum average forward rectified current	lf(AV)	10	А		
Peak forward surge current : 8.3ms single ha wave superimposed on rated load	lfsm	150	А		
<b>T</b> - 1 - 1 - 1	(Note 1)	$R_{ extsf{ heta}JA}$	110	°C 441	
Typical thermal resistance	(Note 2)	$R_{ extsf{ heta}JC}$	3	°C/W	
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Тѕтс	-55 to +150	°C		

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

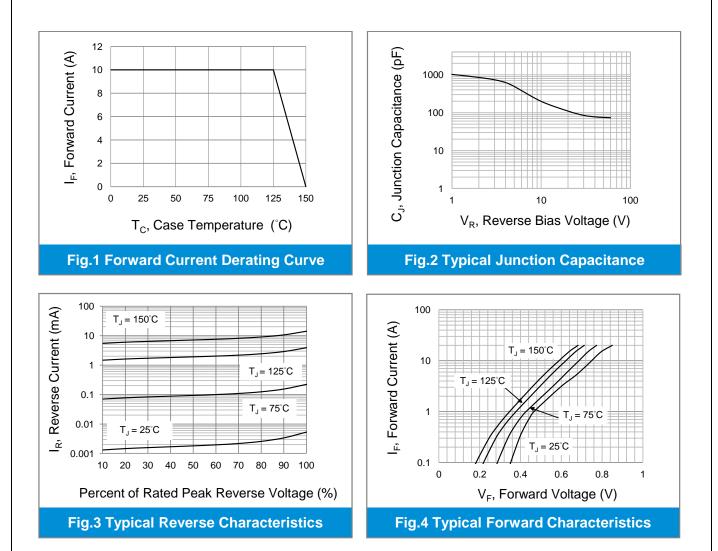
2. Mounted on a 10cm\*10cm\*1mm copper pad area

PAN<mark>JIT</mark>



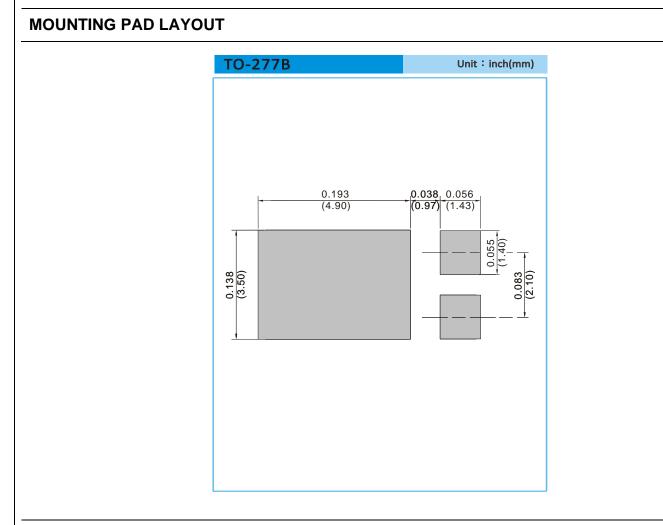
Electrical Characteristics ( $T_A=25^{\circ}C$  unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	$V_{BR}$	I <sub>R</sub> =0.5mA	TJ=25°C	120	-	-	V
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A	Tj=25°C	-	0.47	-	V
		I <sub>F</sub> =5A		-	0.69	-	
		I <sub>F</sub> =10A		-	0.75	0.8	
		I <sub>F</sub> =1A	TJ=125⁰C	-	0.38	-	V
		I <sub>F</sub> =5A		-	0.54	-	
	I <sub>R</sub>	V <sub>R</sub> =96V	TJ=25°C	-	3	-	μA
Reverse current		V <sub>R</sub> =120V	TJ=25°C	-	-	25	μA
			TJ=125°C	-	5	-	mA









#### ORDER INFORMATION

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



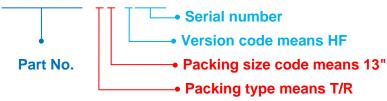


### Part No\_packing code\_Version

SVT10120VB\_R2\_00001

### For example :

#### RB500V-40\_R2\_00001



Packing Code XX					Version Code XXXXX		
Packing type	1 <sup>st</sup> Code	Packing size 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				





### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.