SVT10120VB			
ULTRA LOW VF SCHOTTKY BARRI	ER REC	TIFIER	
Voltage 120 V Current	10 A	ТО-277В	Unit : inch(m
 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 Easy pick and place package suitable for automated handling Lead free in compliance with EU RoHS 2011/65/EU directive Green molding compound as per IEC61249 Std (Halogen File 		(<u>3</u> C +) <u>7</u> <u></u>	0.009(0.25)
Mechanical Data		0.085(2.15)	0.052(1.30) 0.044(1.10) 0.083(2.10)
 Case: TO-277B package Terminals: solder plated, solderable per MIL-STD-750, Method Weight: 0.0038 ounces, 0.1088 grams. Marking: Part number 		(97) (97) (97) (97) (97) (97) (97) (97)	0.053(1.35) 0.045(1.15)

Maximum Ratings And Electrical Characteristics (TA=25°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		IF(AV)	10	А	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		Ігѕм	150	A	
Typical thermal resistance	(Note 1)	Reja	110	°C/W	
	(Note 2)	Rejc	3		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Tstg	-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

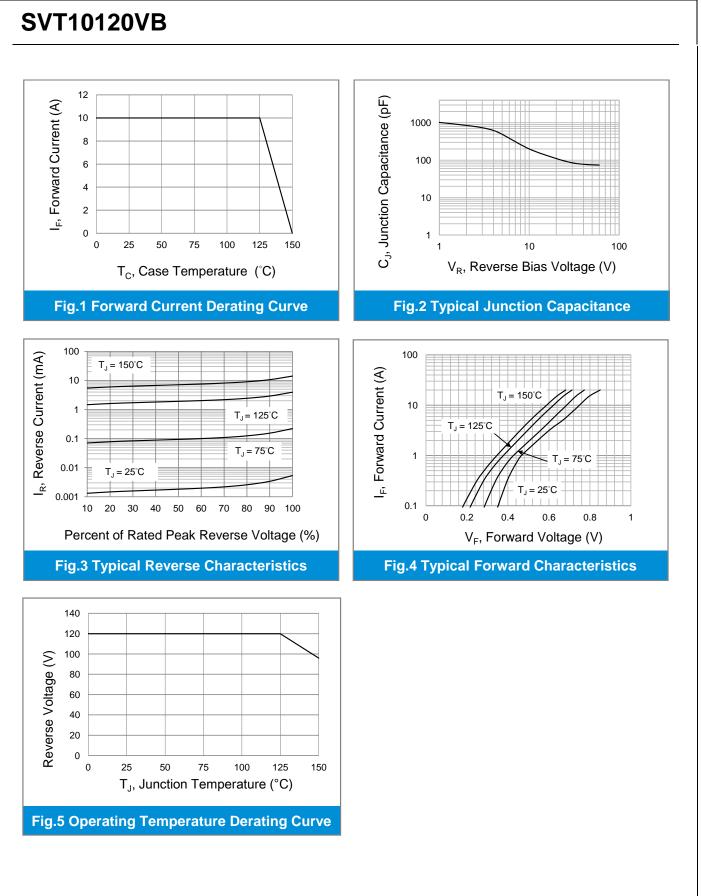


SVT10120VB

Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	TJ=25°C	120	-	-	V
Instantaneous forward voltage	VF	I⊧=1A		-	0.47	-	V
		I⊧=5A	TJ=25°C	-	0.69	-	
		I⊧=10A		-	0.75	0.8	
		I⊧=1A	TJ=125⁰C	-	0.38	-	V
		I _F =5A		-	0.54	-	
Reverse current		Vr=96V	TJ=25⁰C	-	3	-	μA
	IR	V _R =120V	TJ=25°C	-	-	25	μA
			Tj=125°C	-	5	-	mA

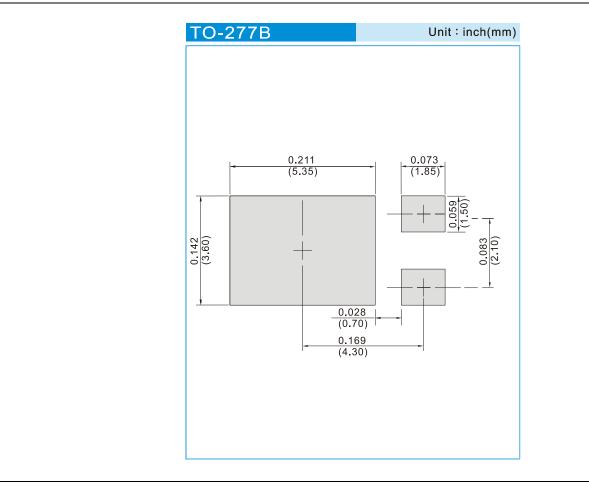






SVT10120VB

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R – 5K per 13" plastic Reel



SVT10120VB

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.