		ŝ
SVT10120V ULTRA LOW VF SCHOTTKY BARRIER RECT	ΓIFIER	
Voltage120 VCurrent10 A	TO-277 Unit : inch	h(mm)
 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 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 Free) 	(<u>57</u>) (<u>57</u>) (<u>57</u>) (<u>57</u>) (<u>10</u>) (<u>11</u>) (<u>10</u>) (<u>11</u>) (<u></u>	
 Mechanical Data Case: TO-277 package Terminals: solder plated, solderable per MIL-STD-750,Method 2026 Weight: 0.00379 ounces, 0.1073 grams. Marking: Part number 	0.250(6.35) (Gr :) 92.0 (Gr	

Maximum Ratings And Electrical Characteristics (T_A=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	Α	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	150	А	
T is a life on a low state of a	(Note 1)	$R_{ extsf{ heta}JA}$	110	°C/W	
Typical thermal resistance	(Note 2)	$R_{ extsf{ heta}JC}$	3		
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



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	V _F	I _F =1A	TJ=25°C	-	0.47	-	V
		I _F =5A		-	0.69	-	
		I _F =10A		-	0.75	0.8	
		I _F =1A	TJ=125⁰C	-	0.38	-	V
		I _F =5A		-	0.54	-	
Reverse current	I _R	V _R =96V	Tj=25°C	-	3	-	μA
		V _R =120V	TJ=25°C	-	-	25	μA
			TJ=125°C	-	5	-	mA

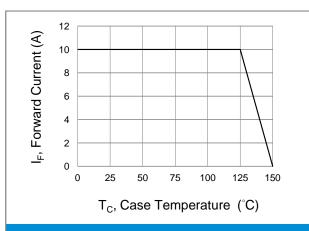
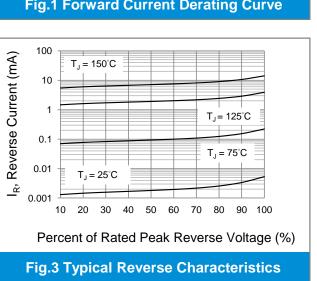


Fig.1 Forward Current Derating Curve



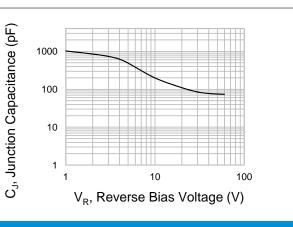
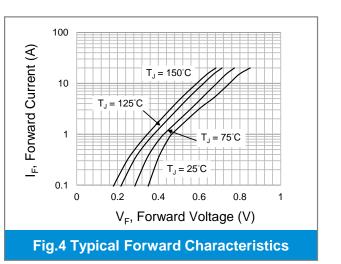
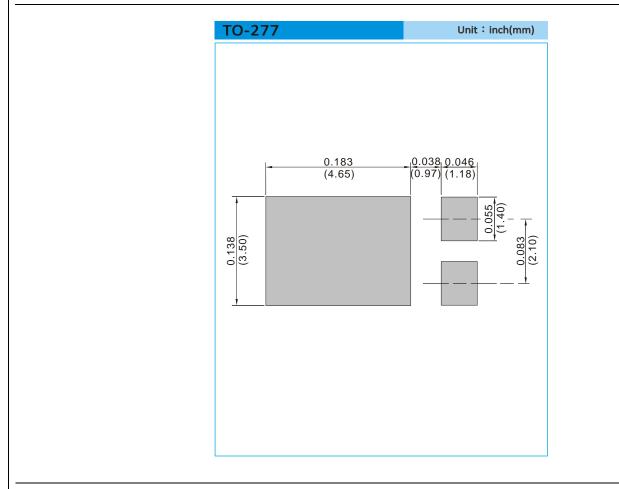


Fig.2 Typical Junction Capacitance





MOUNTING PAD LAYOUT



ORDER INFORMATION

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



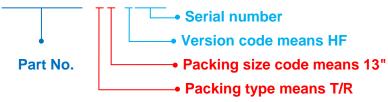


Part No_packing code_Version

SVT10120V_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size 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			





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.