SVT15120UB	
EXTREME LOW VF SCHOTTKY BARRIER RI Voltage 120 V Current 15 A	ECTIFIER TO-277B Unit : inch(m
 Features Ideal for automated placement Extreme 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>55: +)771: 0</u> (<u>75: +)771: 0 (<u>75: +)771: 0</u> (<u>75: +)771: 0</u> (<u>75: +)771: 0 (<u>75: +)771: 0</u> (<u>75: +)771: 0</u> (<u>75: +)771: 0</u></u></u>
Mechanical Data Case: TO-277B package Terminals: solder plated, solderable per MIL-STD-750,Method 2026 Weight: 0.0038 ounces, 0.1088 grams. 	0.269(6.85) (GF) 0.269(6.85) (GF) 0.193(4.90) 0.193(4.90) 0.193(4.90) 0.053(1.35) 0.045(1.15)

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)	15	А	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	250	A	
-	(Note 1)	$R_{ ext{ heta}JA}$	110	°C/W	
Typical thermal resistance	(Note 2)	$R_{ ext{ heta}JC}$	3		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

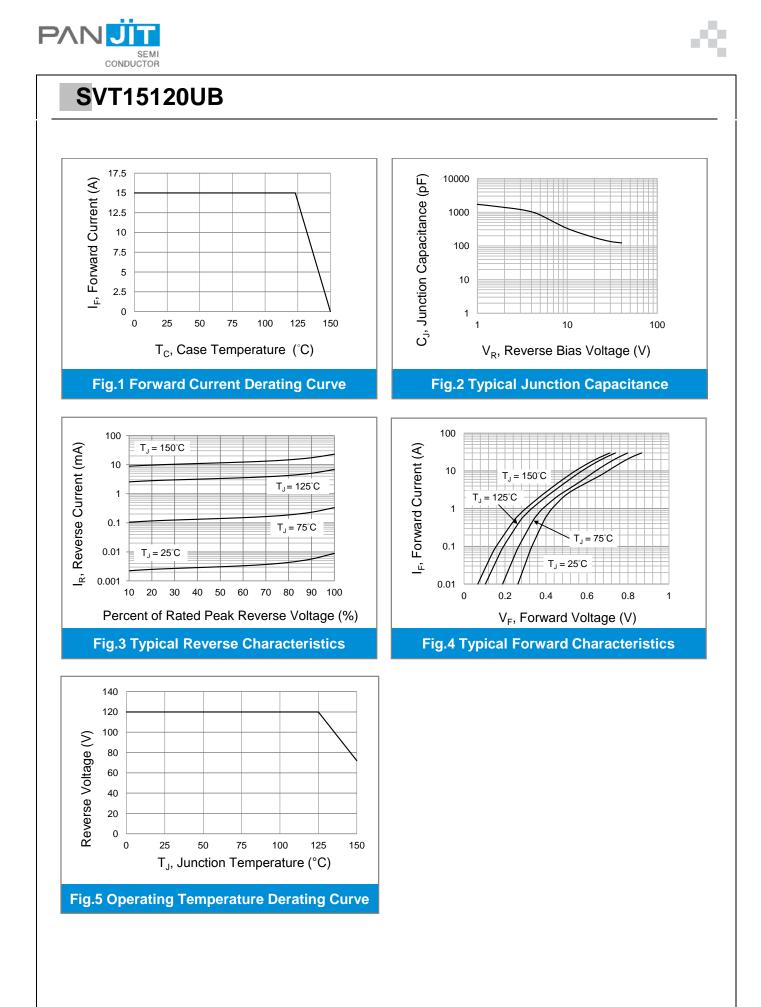
Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

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



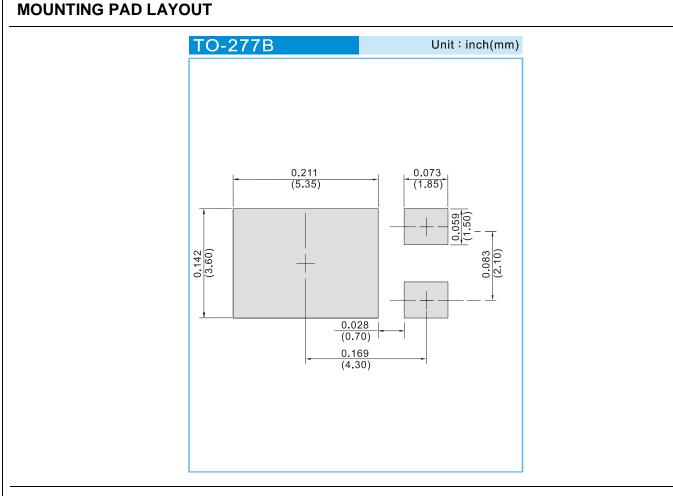
Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

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	-	0.43	-	V
		I _F =5A		-	0.6	-	
		I _F =15A		-	0.74	0.79	
		I _F =1A	TJ=125°C	-	0.33	-	V
		I _F =5A		-	0.5	-	
Reverse current	I _R	V _R =96V	TJ=25°C	-	5	-	μA
		V _R =120V	TJ=25°C	-	-	35	μA
			TJ=125°C	-	7	-	mA









ORDER INFORMATION

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



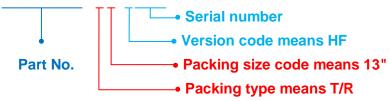


Part No_packing code_Version

SVT15120UB_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			





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