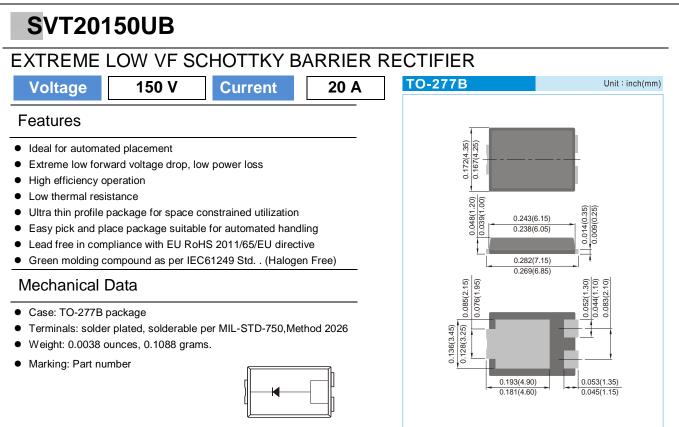
ĴΤ	
SEMI CONDUCTOR	



Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25<sup>°</sup>C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		Vrrm	150	V	
Maximum rms voltage		Vrms	105	V	
Maximum dc blocking voltage		VR	150	V	
Maximum average forward rectified current		IF(AV)	20	А	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		Ігѕм	250	А	
Typical thermal resistance	(Note 1)	$R_{ extsf{ heta}JA}$	110	°C/W	
	(Note 2)	$R_{ extsf{ heta}JC}$	3		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Tstg	-55 to +150	°C	

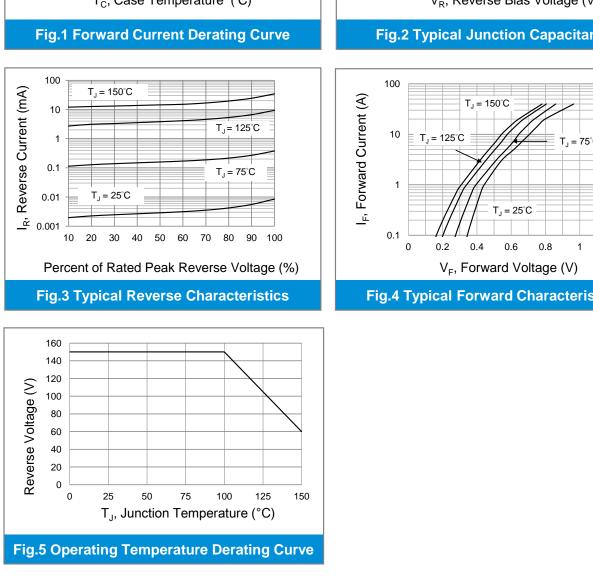
Note : 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

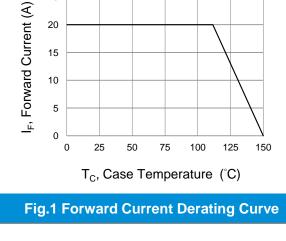
2. Mounted on a 10cm\*10cm\*1mm copper pad area

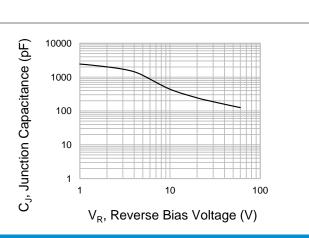


Electrical Characteristics ( $T_A=25^{\circ}C$  unless otherwise noted)

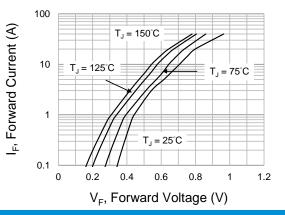
PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	$V_{BR}$	I <sub>R</sub> =0.5mA	TJ=25°C	150	-	-	V
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A		-	0.44	-	
		I <sub>F</sub> =10A	TJ=25°C	-	0.71	-	V
		I <sub>F</sub> =20A		-	0.78	0.84	
		I <sub>F</sub> =1A	TJ=125°C	-	0.34	-	V
		I <sub>F</sub> =10A		-	0.58	-	
Reverse current I <sub>R</sub>	V <sub>R</sub> =120V	TJ=25°C	-	5	-	μA	
	I <sub>R</sub>	V <sub>R</sub> =150V	TJ=25°C	-	-	30	μA
			TJ=125°C	-	10	-	mA







#### **Fig.2 Typical Junction Capacitance**



**Fig.4 Typical Forward Characteristics** 



SVT20150UB

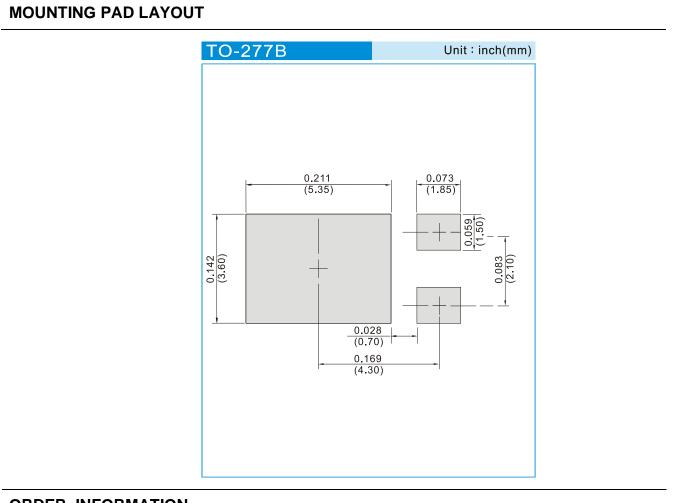
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#### ORDER INFORMATION

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



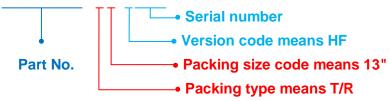


#### Part No\_packing code\_Version

SVT20150UB\_R2\_00001

#### For example :

#### RB500V-40\_R2\_00001



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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