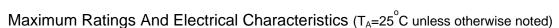
F		11						
SVT15100L								
ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER								
	Voltage	100 V	Current	15 A	<b>TO-277</b>			
	Features							

- 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)

#### Mechanical Data

- Case: TO-277 package •
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026 •
- Weight: 0.0038 ounces, 0.1073 grams. .
- Marking: Part number •





PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage	Vrrm	100	V		
Maximum rms voltage			70	V	
Maximum dc blocking voltage	Vr	100	V		
Maximum average forward rectified current	IF(AV)	15	А		
Peak forward surge current : 8.3ms single ha wave superimposed on rated load	IFSM	200	А		
<b>T</b> - 1 - 1 - 1 - 1	(Note 1)	$R_{ extsf{ heta}JA}$	110	<sup>0</sup> 000	
Typical thermal resistance	(Note 2)	$R_{ ext{ heta}JC}$	3.5	°C/W	
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Тѕтс	-55 to +150	°C		

TO-277

128(3.25)

0.243(6.15

0.262(6.65)

0.250(6.35

0.183(4.65)

0.043(1.10)

Unit : inch(mm)

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

2. Mounted on a 10cm\*10cm\*0.5mm 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	100	-	-	V
	V <sub>F</sub>	I <sub>F</sub> =1A	TJ=25℃	-	0.39	-	V
		I <sub>F</sub> =5A		-	0.5	-	
Instantaneous forward voltage		I <sub>F</sub> =15A		-	0.71	0.76	
		I <sub>F</sub> =1A	TJ=125°C	-	0.28	-	V
		I <sub>F</sub> =5A		-	0.45	-	v
Reverse current	I <sub>R</sub>	V <sub>R</sub> =80V	Tj=25°C	-	10	-	μA
		V 100V	TJ=25°C	-	-	60	μA
		V <sub>R</sub> =100V	TJ=125°C	-	6	-	mA

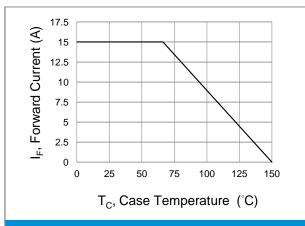
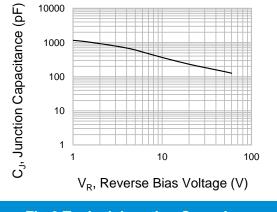
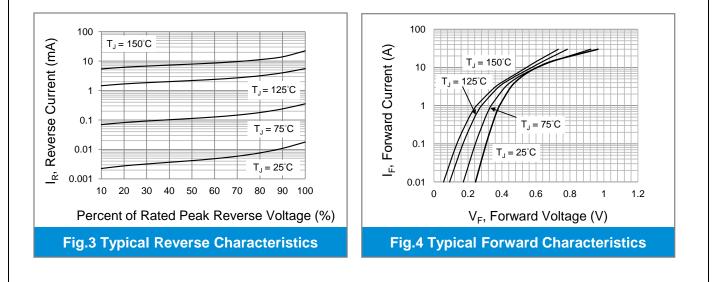


Fig.1 Forward Current Derating Curve



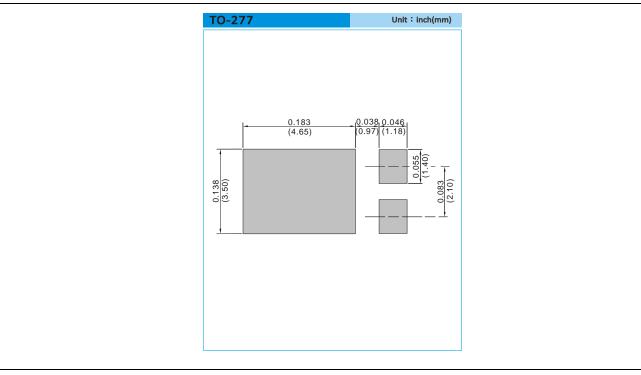
**Fig.2 Typical Junction Capacitance** 







#### MOUNTING PAD LAYOUT

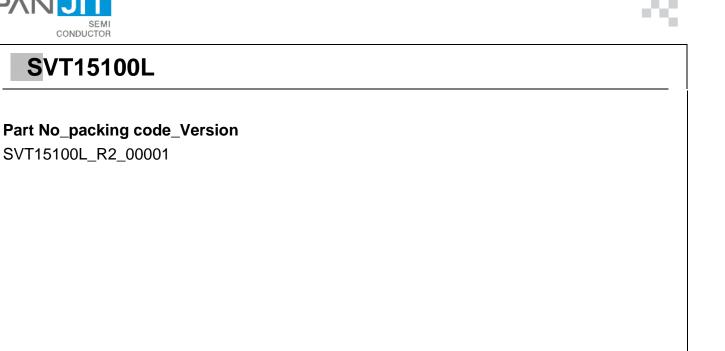


#### ORDER INFORMATION

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

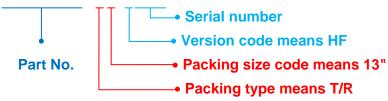


SVT15100L\_R2\_00001



### 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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