SVT15100LB	
ULTRA LOW VF SCHOTTKY BARRIER RECT	IFIER
Voltage100 VCurrent15 A	<b>TO-27</b>
Features	
<ul> <li>Ideal for automated placement</li> <li>Ultra low forward voltage drop, low power loss</li> <li>High efficiency operation</li> <li>Low thermal resistance</li> <li>Ultra thin profile package for space constrained utilization</li> <li>Easy pick and place package suitable for automated handling</li> </ul>	

Lead free in compliance with EU RoHS 2011/65/EU directive

Green molding compound as per IEC61249 Std. . (Halogen Free)

Terminals: solder plated, solderable per MIL-STD-750, Method 2026

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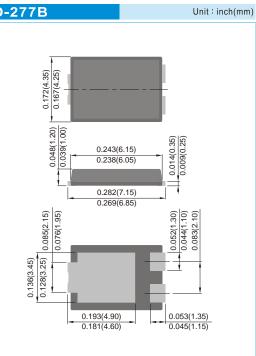
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Mechanical Data

Marking: Part number

Case: TO-277B package

Weight: 0.0038 ounces, 0.1088 grams.



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

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PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage		Vrrm	100	V	
Maximum rms voltage	Vrms	70	V		
Maximum dc blocking voltage		VR	100	V	
Maximum average forward rectified current	IF(AV)	15	Α		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	200	А	
	(Note 1)	$R_{ extsf{ heta}JA}$	110	°C/W	
Typical thermal resistance	(Note 2)	$R_{ extsf{ heta}JC}$	3.5		
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.

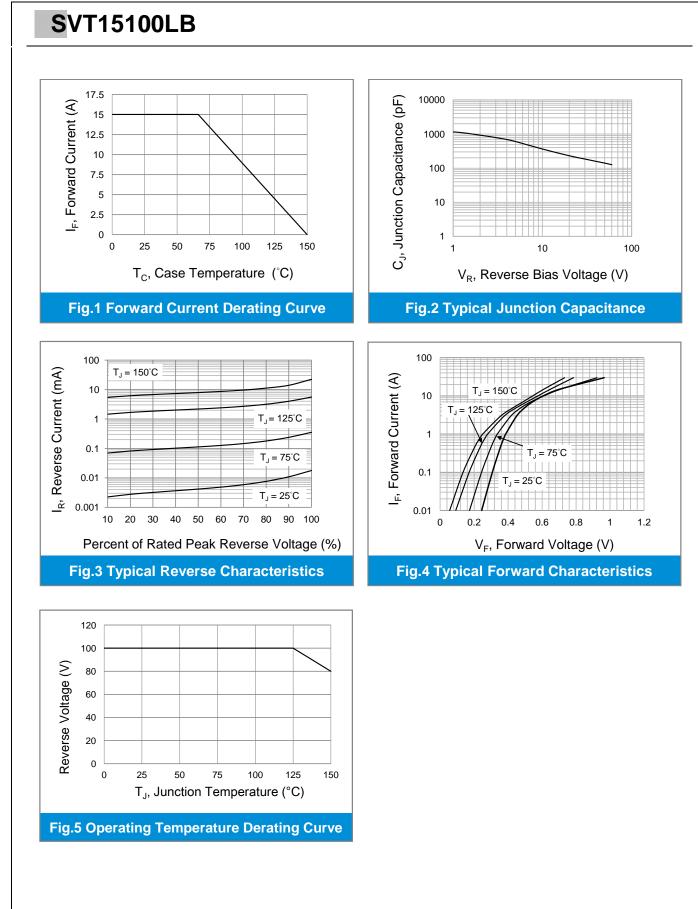
2. Mounted on a 10cm\*10cm\*0.5mm copper pad area





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
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A	TJ=25°C	-	0.39	-	V
		I <sub>F</sub> =5A		-	0.5	-	
		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	-	
Reverse current	I <sub>R</sub>	V <sub>R</sub> =80V	TJ=25°C	-	10	-	μA
		V <sub>R</sub> =100V	TJ=25°C	-	-	60	μA
			TJ=125°C	-	6	-	mA





## SVT15100LB

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Packing information

T/R – 5K per 13" plastic Reel





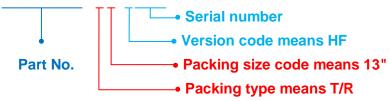
## SVT15100LB

#### Part No\_packing code\_Version

SVT15100LB\_R2\_00001

#### For example :

#### RB500V-40\_R2\_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 <sup>st</sup> Code	Packing size 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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