SVC10120VB

ULTRA LOW VF SCHOTTKY RECTIFIER

CURRENT

VOLTAGE FEATURES

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss

120 Volt

- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- 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-277B, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Weight : 0.0038 ounces, 0.1088 grams

Marking : Part number

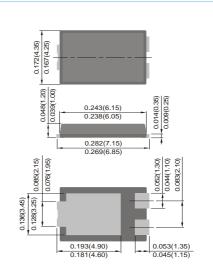
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10 Ampere

MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage			120	V
Maximum RMS Voltage		Vrms	85	V
Maximum DC Blocking Voltage		Vr	120	V
Maximum Average Rectified Output Current		I F(AV)	10	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I FSM	200	А
Typical Thermal Resistance	(Note 2) (Note 1)	Roja Rojc	110 4	°C/W
Operating Junction Temperature Range And Storage Temperature Range			-55 to + 150	°C

NOTES : 1.Mounted on a FR4 PCB, single-sided copper, mini pad. 2.Mounted on 10cm*10cm*0.5mm copper pad area





Unit : inch(mm)

TO-277B



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ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT	
Breakdown voltage	Vbr	I R=0.5mA	TA=25°C	120	-	-	V
Instantaneous forward voltage	VF	I F=1A I F=5A I F=10A I F=1A I F=5A	Ta=25°C Ta=125°C	- - - -	0.43 0.63 0.74 0.33 0.54	- - 0.79 - -	V V
Deveree everent		VR=96V	TA=25°C	-	10	-	μΑ
Reverse current	l r	VR=120V	TA=25°C TA=125°C	-	- 16	100 -	μA mA

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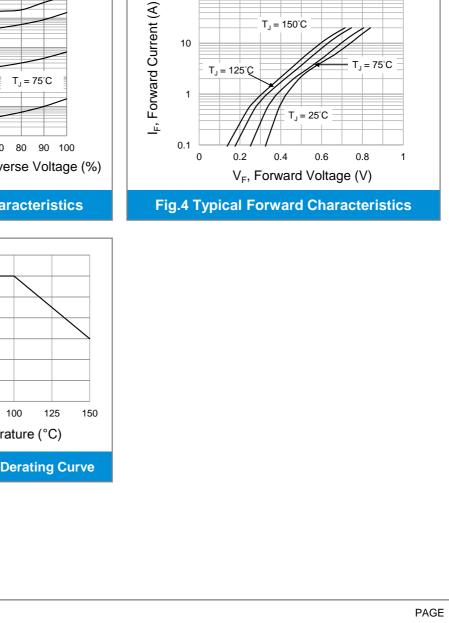


Fig.1 Forward Current Derating Curve

T_C, Case Temperature (°C)

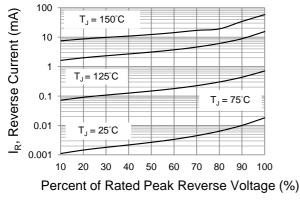
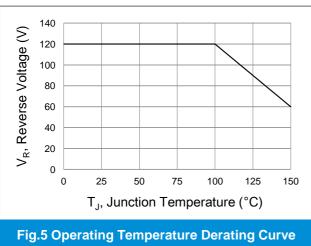
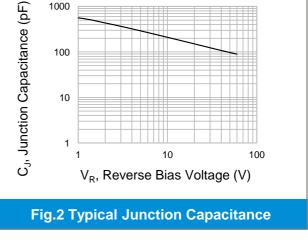


Fig.3 Typical Reverse Characteristics





T₁ = 150°C



I_F, Forward Current (A)

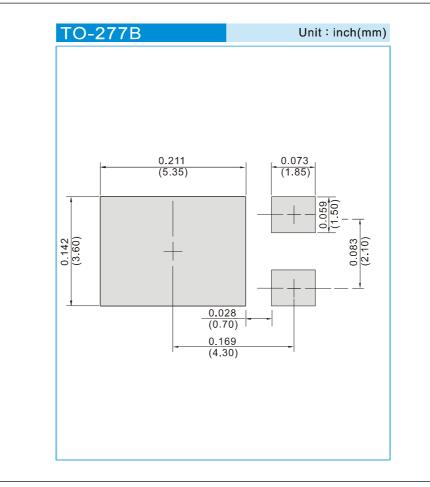
SVC10120VB





SVC10120VB

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVC10120VB_R2_00001

SVC10120VB

For example :

RB500V-40_R2_00001

Part No.

- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	A	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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