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 2.0
- Green molding compound as per IEC 61249 standard

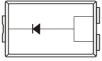
MECHANICAL DATA

Case : TO-277, Plastic

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

Weight : 0.00324 ounces, 0.092 grams

Marking : Part number



TO-277

0.172(4.35) 0.167(4.25)

0.048(1.20)

0.085(2.15) 0.076(1.95)

0.136(3.45) 0.128(3.25)

12 Ampere

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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	120	V
Maximum RMS Voltage		VRMS	85	V
Maximum DC Blocking Voltage		Vr	120	V
Maximum Average Rectified Output Current		l f(AV)	12	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	200	А
Ivnical Inermal Resistance	(Note 2) (Note 1)	Roja Rojc	110 3	°C/W
Operating Junction Temperature Range And Storage Temperature Range		TJ,TSTG	-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)

0.014(0.35) 0.009(0.25)

10)

0.052(1.3 0.044(1.3 0.083(2.3

0.043(1.10) 0.035(0.90)

0.243(6.15)

0.262(6.65)

0.183(4.65) 0.171(4.35)

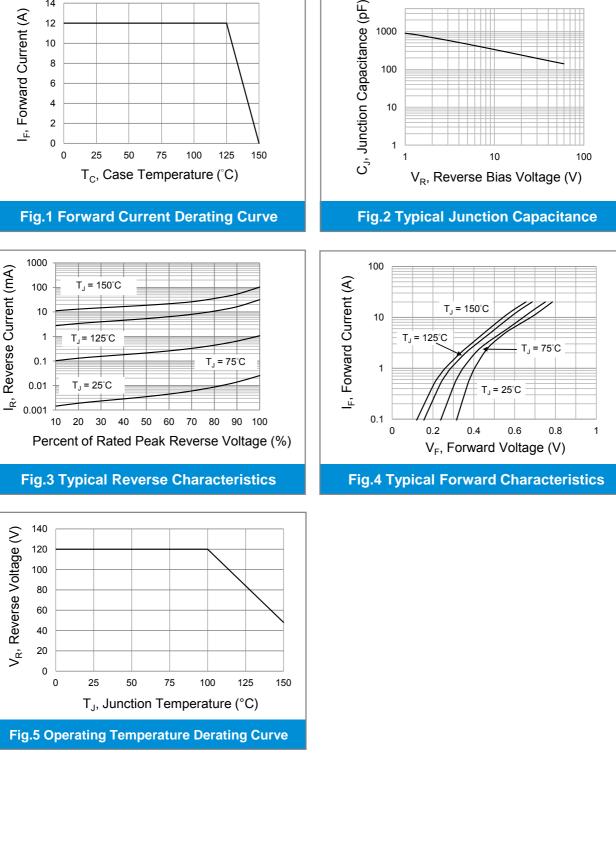
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ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	Ta=25°C	120	-	-	V
Instantaneous forward voltage	VF	F=1A F=6A F=12A F=1A F=6A	Ta=25°C Ta=125°C		0.4 0.59 0.71 0.29 0.51	- - 0.77 - -	V V
Reverse current	l r	VR=96V	Ta=25℃	-	10	-	μA
		VR=120V	Ta=25°C Ta=125°C	-	- 35	100 -	μA mA

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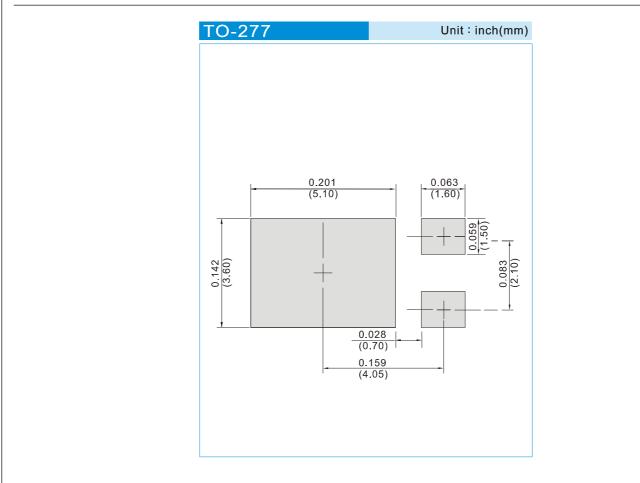
SVC12120V





MOUNTING PAD LAYOUT

SVC12120V



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





SVC12120V

Part No_packing code_Version

SVC12120V_R2_00001

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			



SVC12120V

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