SRC4200UF

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

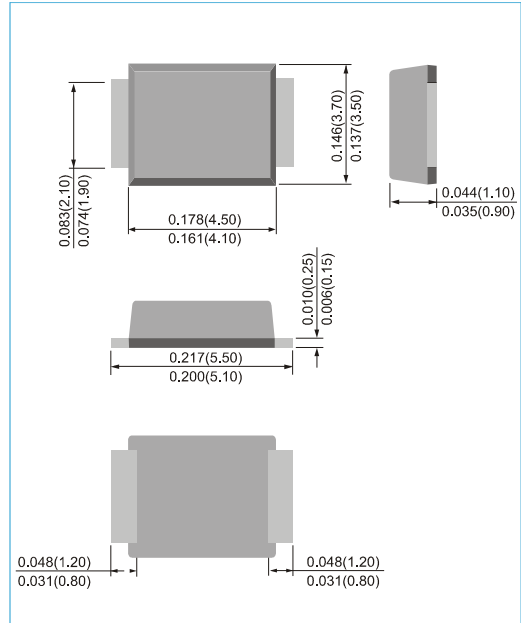| VOLTAGE	200 Volt	CURRENT	4 Ampere

FEATURES

- Ideal for automated placement
- Extremely low forward voltage drop, low power loss
- 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: plastic molded
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity: Color band denotes cathode end
- Marking: Part number

SMBF
Unit : inch(mm)

0.146(3.70)
0.137(3.50)
0.083(2.10)
0.074(1.90)
0.178(4.50)
0.161(4.10)
0.044(1.10)
0.035(0.90)
0.010(0.25)
0.006(0.15)
0.217(5.50)
0.200(5.10)
0.048(1.20)
0.031(0.80)
0.048(1.20)
0.031(0.80)

1 Cathode   2 Anode

MAXIMUM RATINGS (T$_A$=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		V$_{RRM}$	200	V
Maximum RMS Voltage		V$_{RMS}$	140	V
Maximum DC Blocking Voltage		V$_R$	200	V
Average Rectified Output Current		I$_{F(AV)}$	4	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I$_{FSM}$	100	A
Typical Thermal Resistance	(Notes 1) (Notes 2)	R$_{\theta JA}$ R$_{\theta JL}$	135 15	^{o}C/W
Operating Junction Temperature and Storage Temperature range		T$_J$,T$_{STG}$	-55 to + 150	^{o}C

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

2.Mounted on a FR4 PCB, single-sided copper, with 100cm^2 copper pad area.

SRC4200UF

ELECTRICAL CHARACTERISTICS (T$_A$=25°C unless otherwise noted)

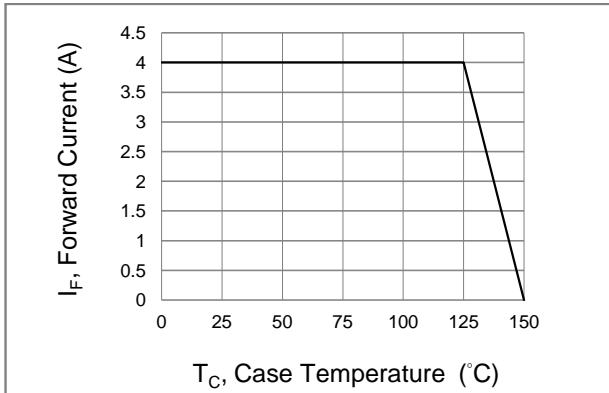| PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Break down voltage	V$_{BR}$	I$_R$=5µA	T$_A$=25°C	200	-	-	V
Instantaneous forward voltage	V$_F$	I$_F$=3A I$_F$=4A	T$_A$=25°C	- -	0.73 0.76	- 0.84	V
		I$_F$=3A I$_F$=4A	T$_A$=125°C	- -	0.58 0.61	- -	V
Reverse current	I$_R$	V$_R$=160V	T$_A$=25°C	-	0.1	-	µA
		V$_R$=200V	T$_A$=25°C T$_A$=125°C	- -	- 0.3	1 -	µA mA

SRC4200UF
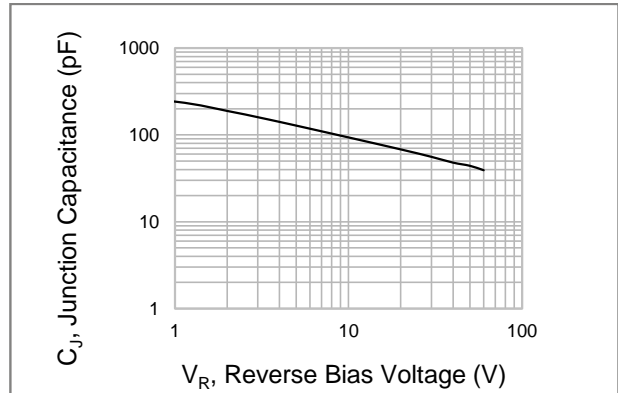

Fig.1 Forward Current Derating Curve
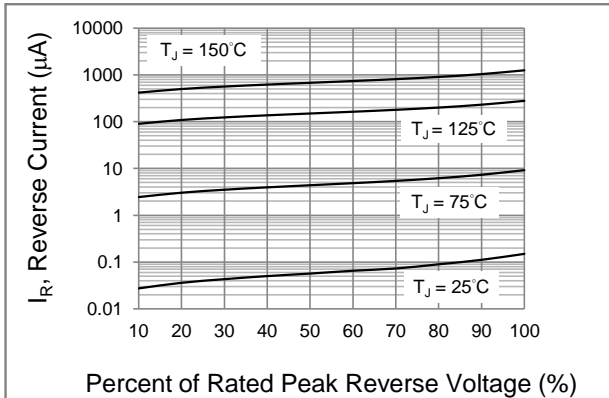

Fig.2 Typical Junction Capacitance

Fig.3 Typical Reverse Characteristics
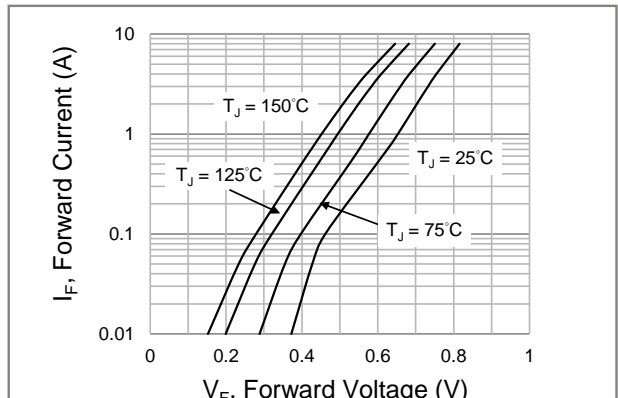
Fig.4 Typical Forward Characteristics
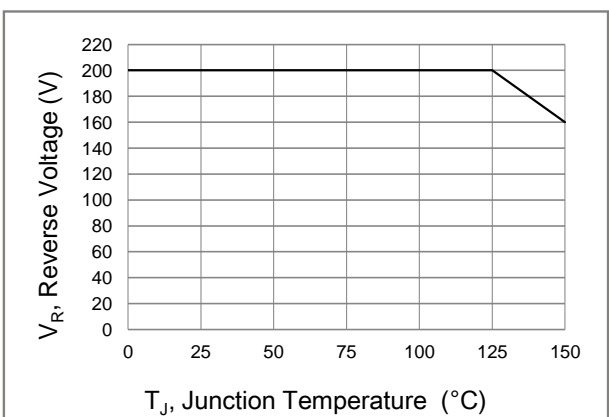
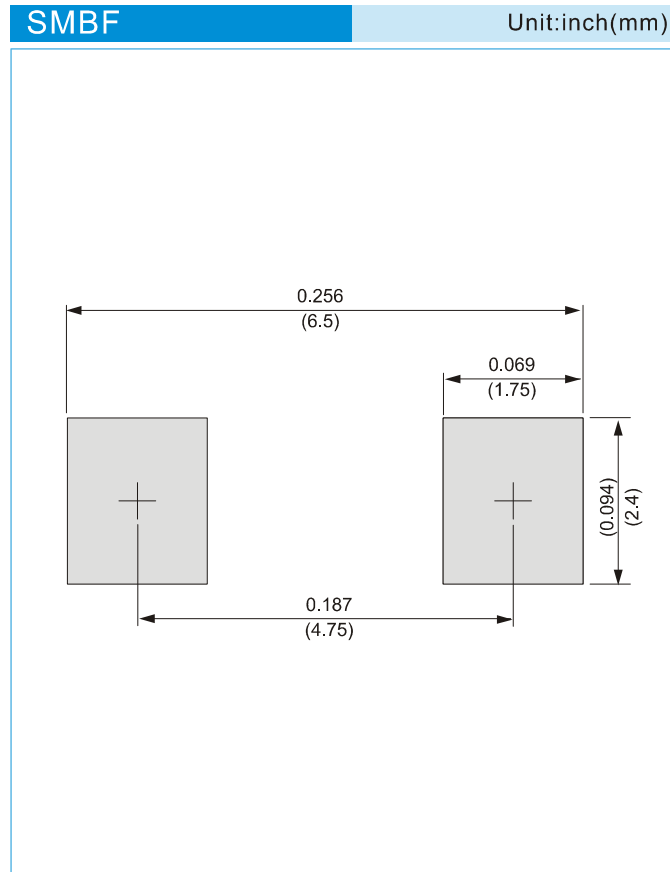**Fig.5 Operating Temperature Derating Curve**

SRC4200UF

MOUNTING PAD LAYOUT

SMBF	Unit:inch(mm)

0.256
(6.5)

0.069
(1.75)

(0.094)
(2.4)

0.187
(4.75)

ORDER INFORMATION

• Packing information

  T/R - 5K per 13" plastic Reel

SRC4200UF

Part No_packing code_Version

SRC4200UF_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
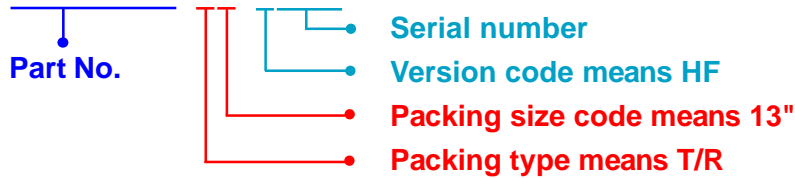
Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (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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