



SRC4200UF

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

VOLTAGE 200 Volt **CURRENT** 4 Ampere

FEATURES

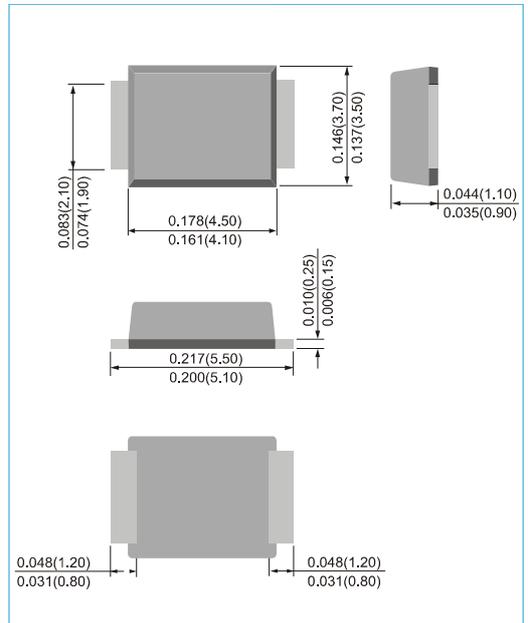
- Ideal for automated placement
- Extremely low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- 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)



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 | R _{θJA} R _{θJL} | 135 15 | °C/W |
| Operating Junction Temperature and Storage Temperature range | T _J , T _{STG} | -55 to + 150 | °C |

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

2.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.



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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 |



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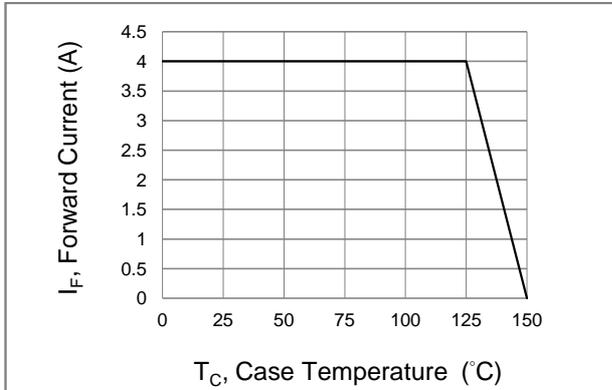


Fig.1 Forward Current Derating Curve

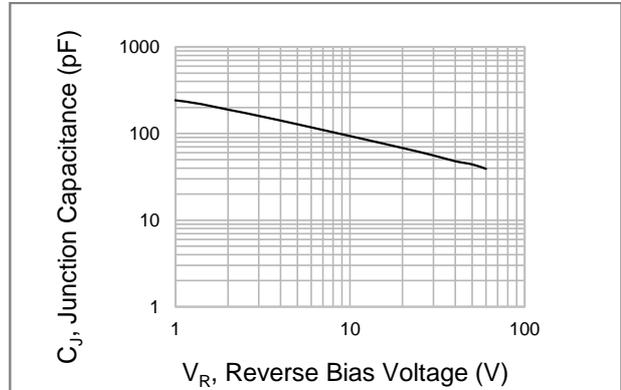


Fig.2 Typical Junction Capacitance

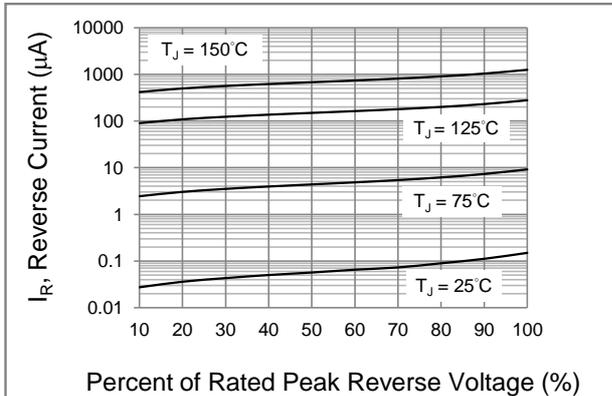


Fig.3 Typical Reverse Characteristics

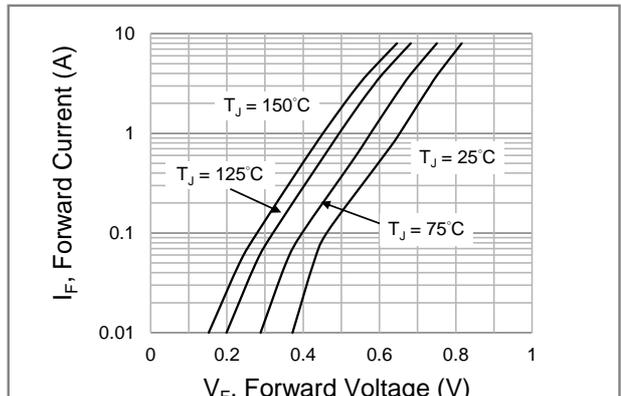


Fig.4 Typical Forward Characteristics

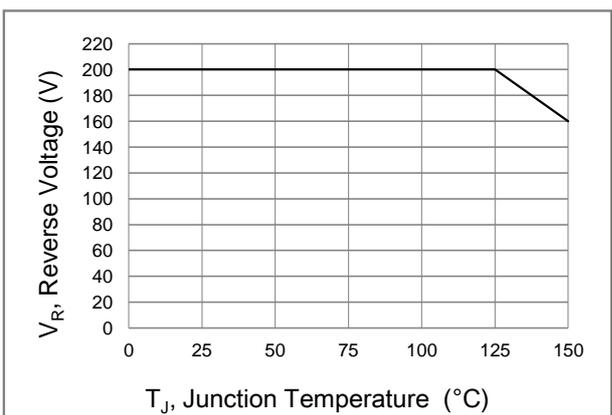
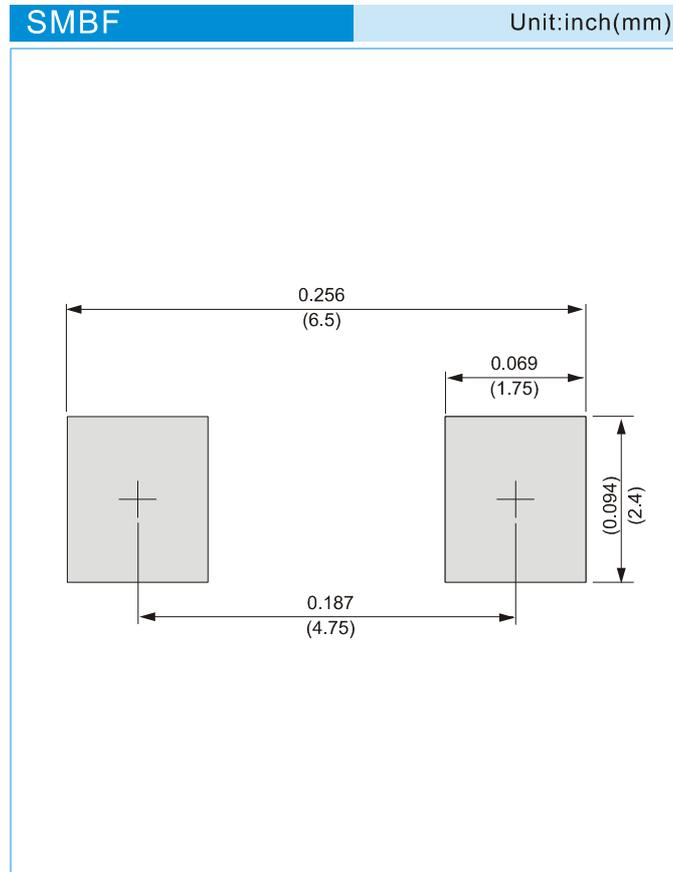


Fig.5 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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Part No_packing code_Version

SRC4200UF_R2_00001

For example :

RB500V-40_R2_00001



| 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) | 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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