



SR22F SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

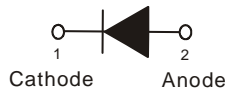
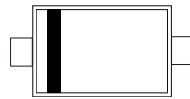
VOLTAGE 20-60 Volt **CURRENT** 2 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Low power loss,high efficiency
- High surge capacity
- For surface mounted applications in order to optimize board space
- 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

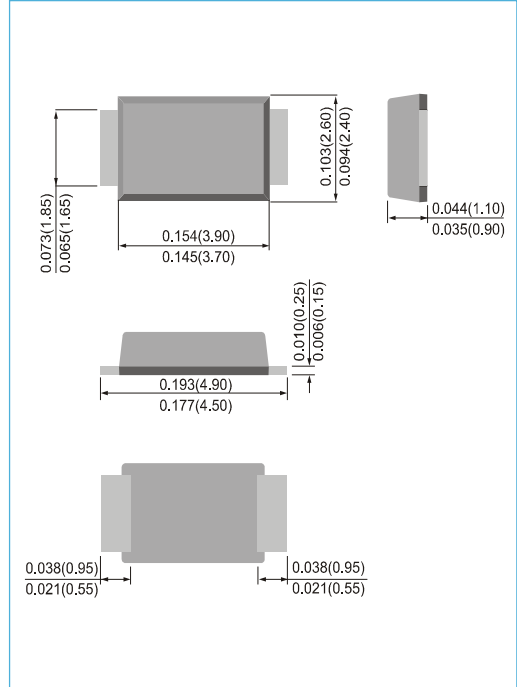
MECHANICAL DATA

- Case: SMAF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Approx. Weight: 0.0012 ounces, 0.0328 grams
- Polarity : Color band denotes cathode end



SMAF

Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

| PARAMETER | SYMBOL | SR22F | SR23F | SR24F | SR25F | SR26F | UNITS |
|---|--------------------------------------|-------------|-------|-------|-------|-------|--------|
| Recurrent Peak Reverse Voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | V |
| RMS Voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | V |
| DC Blocking Voltage | V _R | 20 | 30 | 40 | 50 | 60 | V |
| Average Forward Current | I _{F(AV)} | 2 | | | | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 50 | | | | | A |
| Forward Voltage at 2A | V _F | 0.5 | | | 0.7 | | V |
| DC Reverse Current at Rated DC Blocking Voltage | I _R | 0.1 | | | | | mA |
| Typical Junction Capacitance | C _J | 98 | | | 76 | | pF |
| Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 1) | R _{θJL} R _{θJA} | 20 83 | | | | | °C / W |
| Operating Junction Temperature and Storage Temperature Range | T _J ,T _{STG} | -55 to +150 | | | | | °C |

NOTES :

1. Mounted on 48cm² FR-4 PCB.



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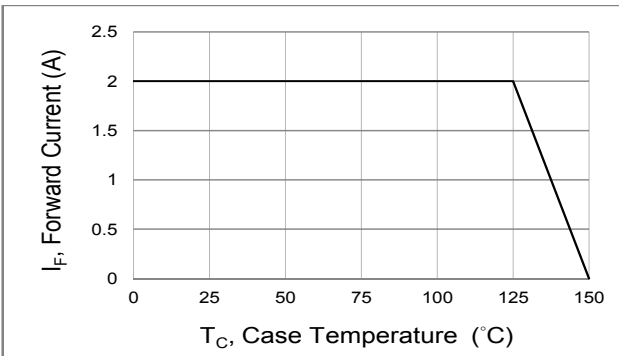


Fig.1 Forward Current Derating Curve

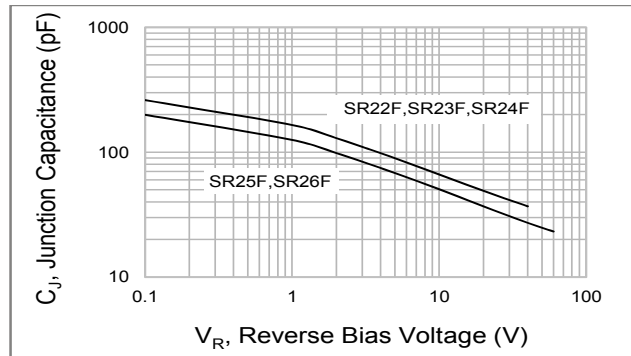


Fig.2 Typical Junction Capacitance

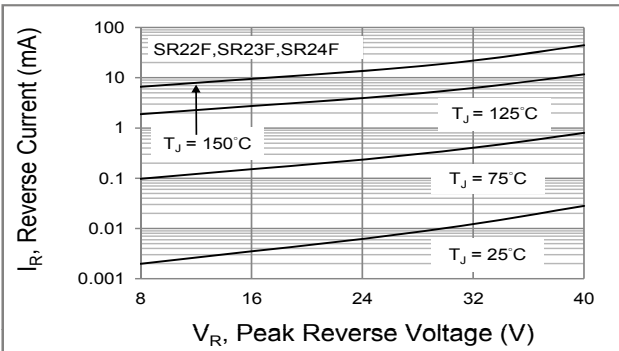


Fig.3 Typical Reverse Characteristics

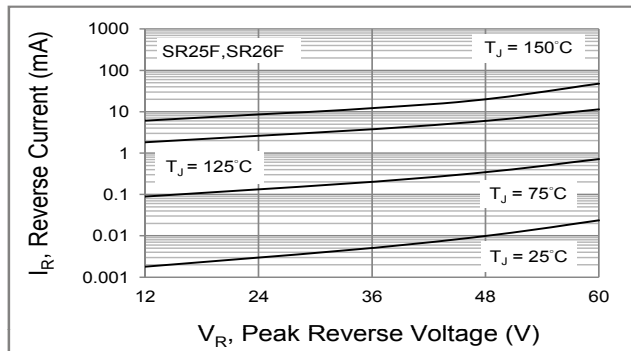


Fig.4 Typical Reverse Characteristics

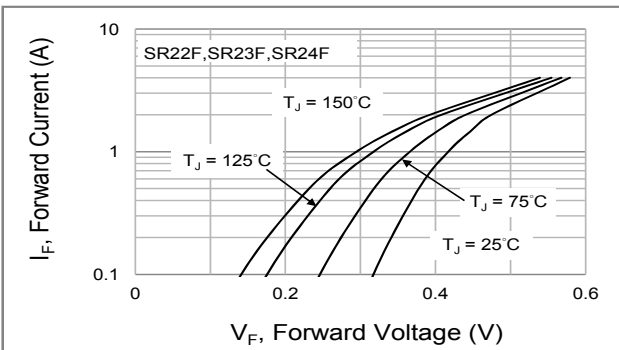


Fig.5 Typical Forward Characteristics

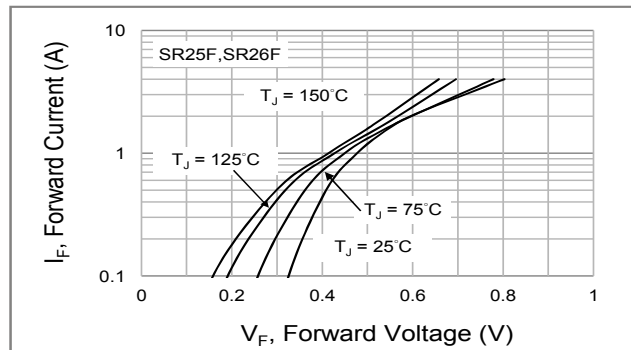


Fig.6 Typical Forward Characteristics

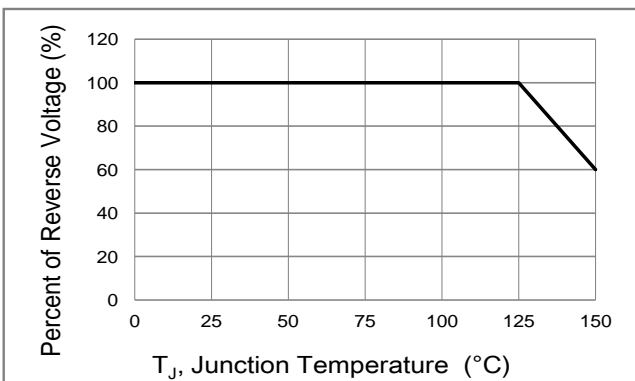
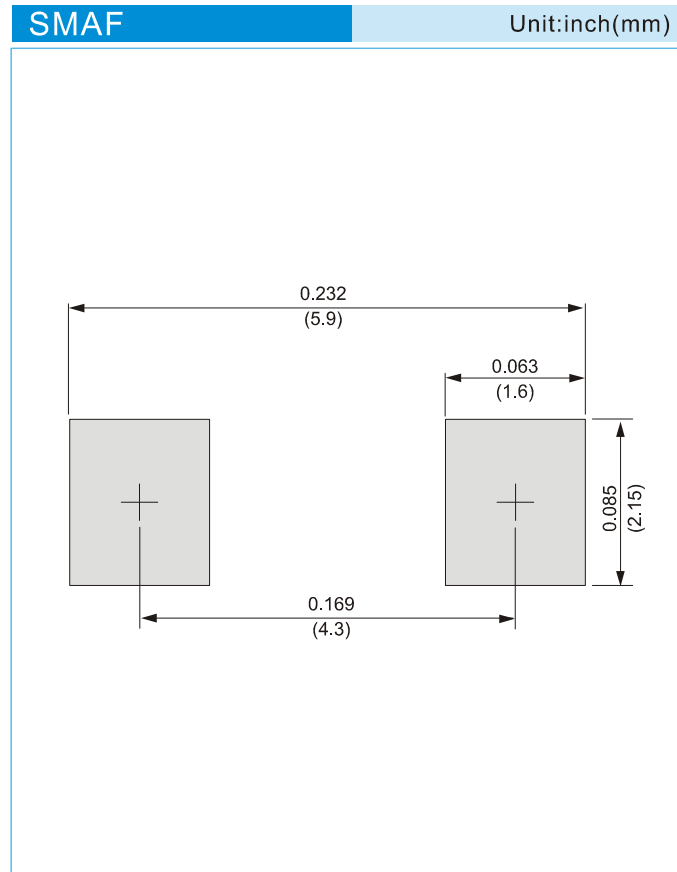


Fig.7 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel



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Part No_packing code_Version

SR22F_R1_00001

SR22F_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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