



SRM560VF

ULTRA LOW VF SCHOTTKY

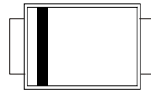
VOLTAGE 60 Volts **CURRENT** 5 Amperes

FEATURES

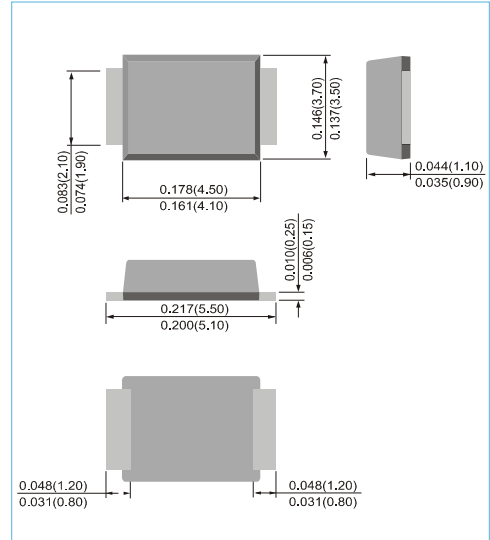
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Low power loss, high efficiency
- High surge capacity
- Lead free in comply with EU RoHS 2011/65/EU directives.
- 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



SMBF Unit : inch(mm)



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

| PARAMETER | SYMBOL | VALUE | UNIT |
|---|--------------------|--------------|------|
| Maximum repetitive peak reverse voltage | V _{RRM} | 60 | V |
| Maximum rms voltage | V _{RMS} | 42 | V |
| Maximum dc blocking voltage | V _R | 60 | V |
| Maximum average forward rectified current | I _{F(AV)} | 5 | A |
| Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 120 | A |
| Typical thermal resistance (Note 1) | R _{θJA} | 135 | °C/W |
| (Note 2) | R _{θJL} | 15 | |
| Typical junction capacitance (V _R =4V, f=1MHz) | C _J | 300 | pF |
| Operating junction temperature range | T _J | -55 to + 150 | °C |
| Storage temperature range | T _{STG} | -55 to + 150 | °C |

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

2.Mounted on an FR4 PCB, single-sided copper, with 10cm*10cm copper pad area



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

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN. | TYP. | MAX. | UNIT |
|-------------------------------|-----------------|-----------------------|-----------------------|------|------|------|
| Breakdown voltage | V _{BR} | I _R =0.5mA | 60 | - | - | V |
| Instantaneous forward voltage | V _F | I _F =1A | - | 0.33 | - | V |
| | | I _F =3A | - | 0.41 | - | V |
| | | I _F =5A | - | 0.47 | 0.52 | V |
| | | I _F =1A | T _J =125°C | - | 0.25 | - |
| Reverse current | I _R | V _R =42V | - | 20 | - | μA |
| | | V _R =60V | T _J =25°C | - | - | 220 |
| | | | - | 8.5 | - | mA |

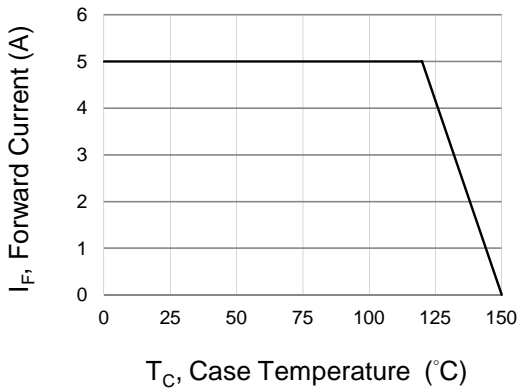


Fig.1 Forward Current Derating Curve

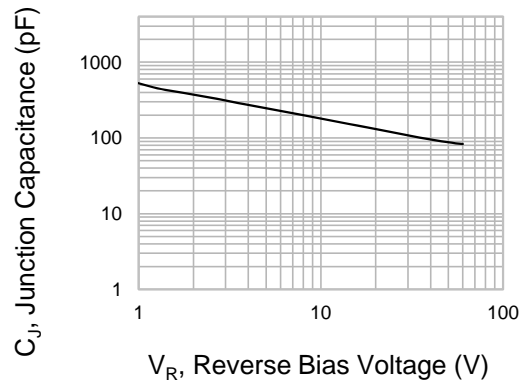


Fig.2 Typical Junction Capacitance

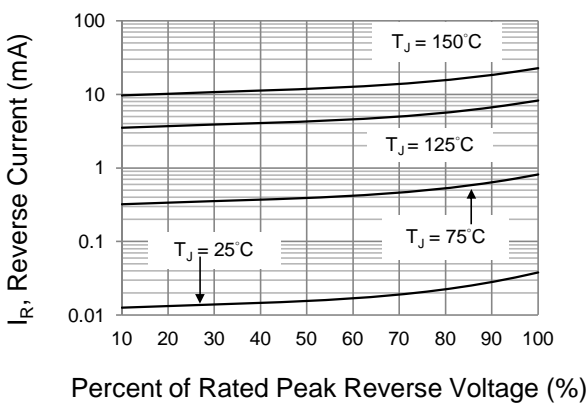


Fig.3 Typical Reverse Characteristics

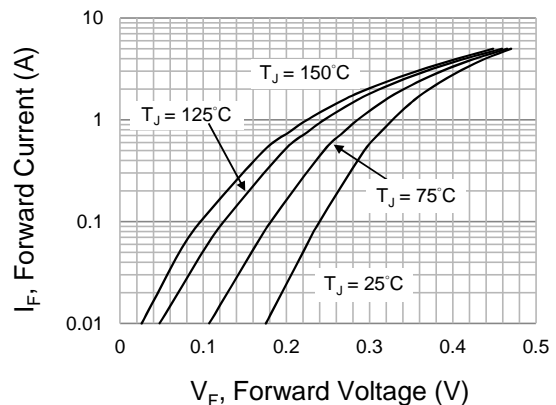


Fig.4 Typical Forward Characteristics

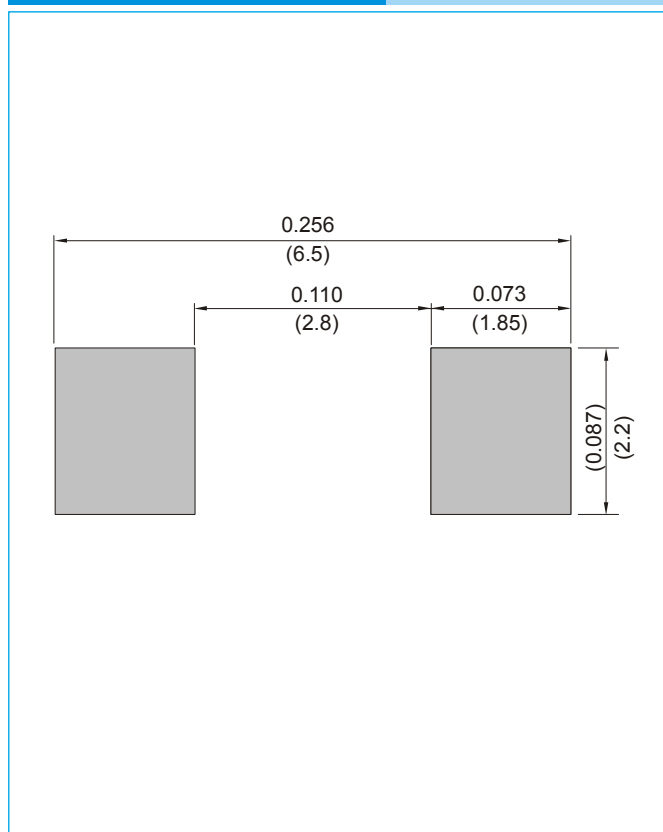


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MOUNTING PAD LAYOUT

SMBF

Unit : inch(mm)



ORDER INFORMATION

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



SRM560VF

Part No_packing code_Version

SRM560VF_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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