



SV540B / SV5100B

SCHOTTKY BARRIER RECTIFIER

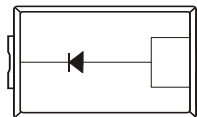
VOLTAGE 40~100 Volt **CURRENT** 5 Ampere

FEATURES

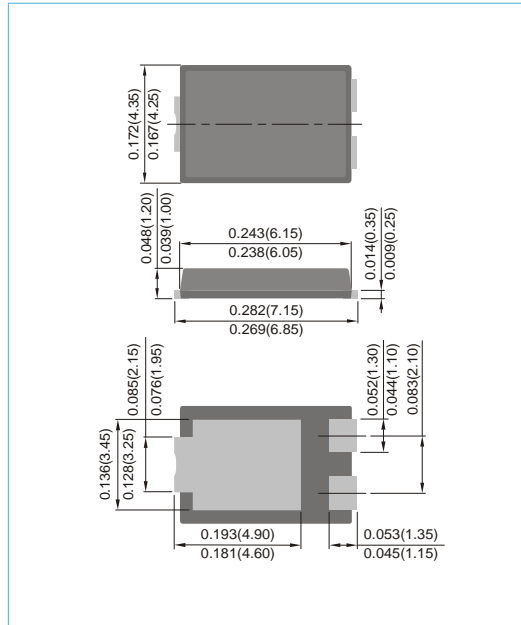
- Ideal for automated placement
- High efficiency Operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case : TO-277B, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.0038 ounces, 0.1088 grams
- Marking : Part number



TO-277B Unit : inch(mm)



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

| PARAMETER | SYMBOL | SV540B | SV5100B | UNITS |
|---|--------------------------------------|-------------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 40 | 100 | V |
| Maximum RMS Voltage | V _{RMS} | 28 | 70 | V |
| Maximum DC Blocking Voltage | V _R | 40 | 100 | V |
| Maximum Average Forward Current | I _O | 5 | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 150 | | A |
| Maximum Forward Voltage at 5A | V _F | 0.52 | 0.87 | V |
| Maximum DC Reverse Current T _J =25°C | I _R | 250 | 15 | μA |
| Maximum DC Reverse Current T _J =100°C | I _R | 20 | 2 | mA |
| Typical Junction Capacitance at V _R =0V, f=1MHz | C _J | 730 | 475 | pF |
| Typical Thermal Resistance, Junction to Ambient (Note 1) Junction to Lead (Note 2) | R _{θJA} R _{θJL} | 80 15 | | °C/W |
| Operating Junction Temperature and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | | °C |

NOTES:1.Mounted on minimum pad layout.
2.Mounted on 50cm² copper pad area.



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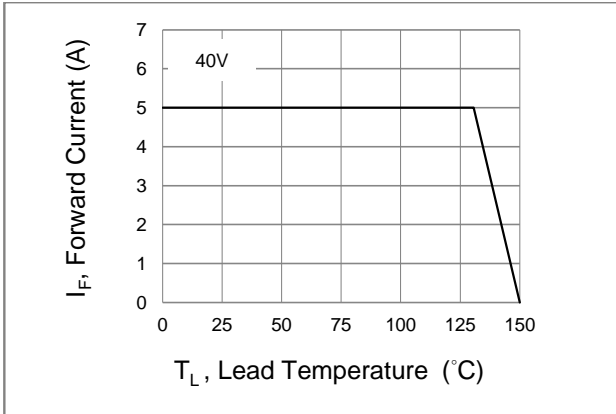


Fig.1 Forward Current Derating Curve

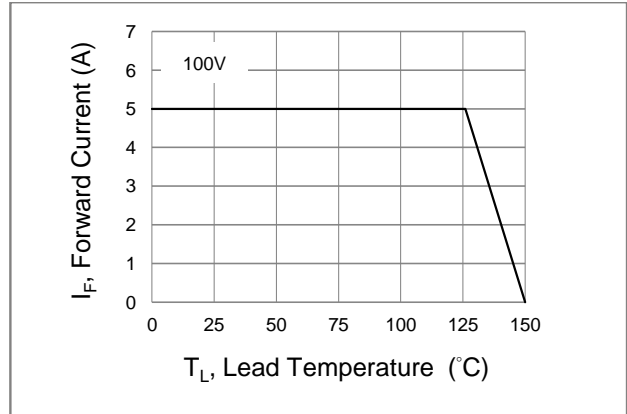


Fig.2 Forward Current Derating Curve

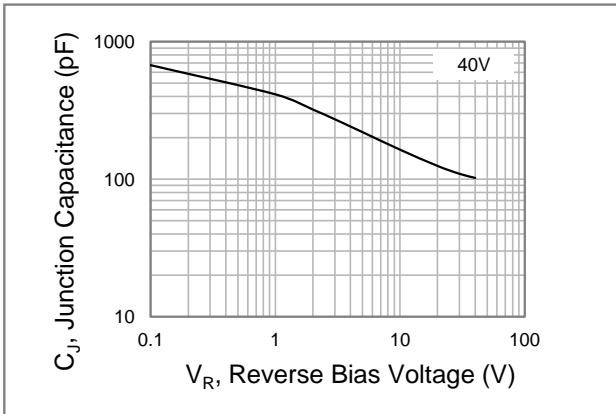


Fig.3 Typical Junction Capacitance

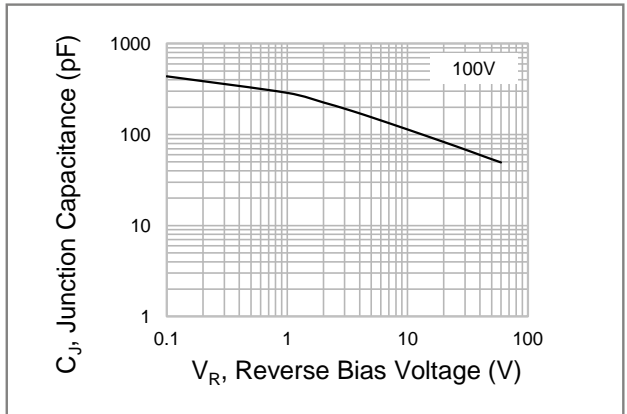


Fig.4 Typical Junction Capacitance

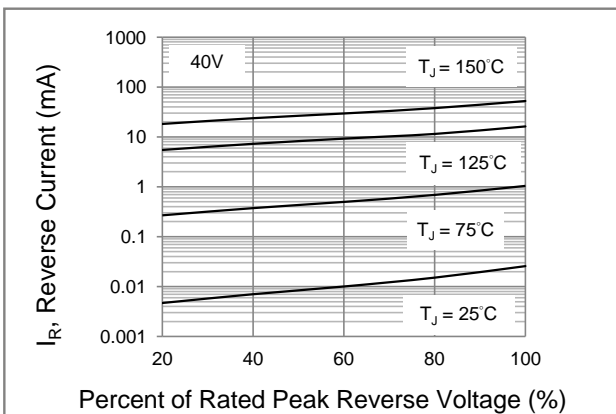


Fig.5 Typical Reverse Characteristics

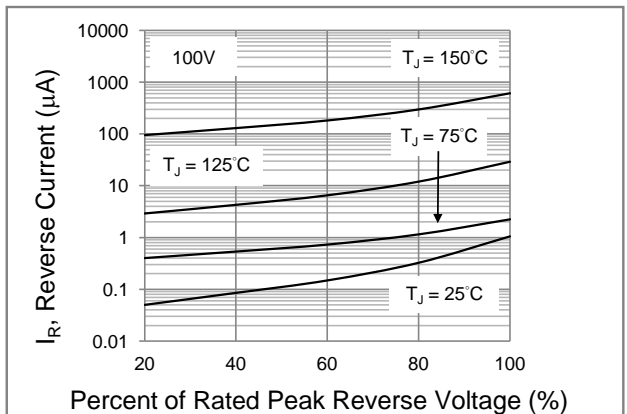


Fig.6 Typical Reverse Characteristics



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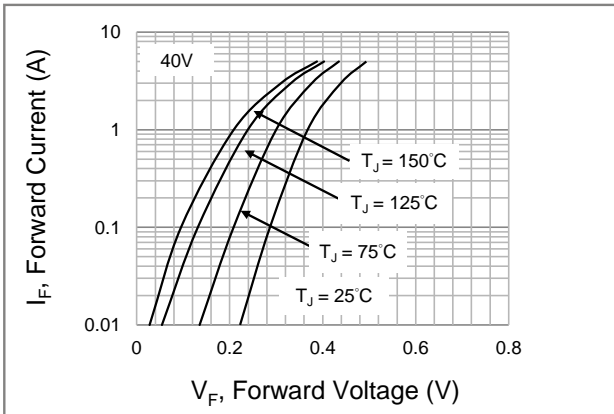


Fig.7 Typical Forward Characteristics

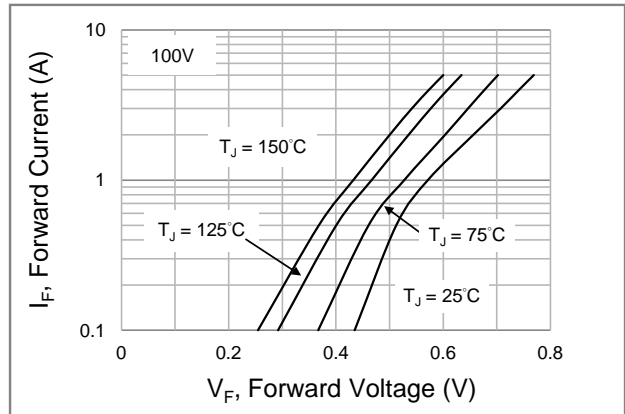


Fig.8 Typical Forward Characteristics

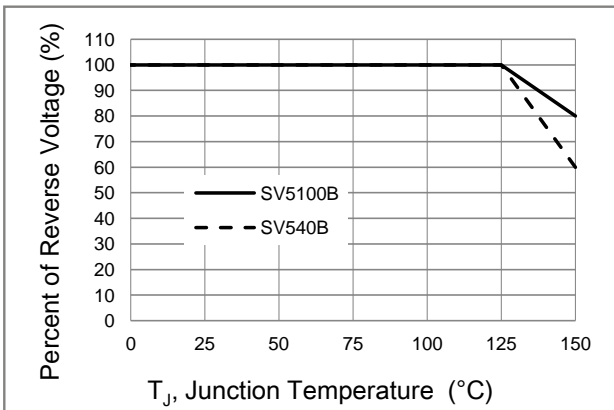
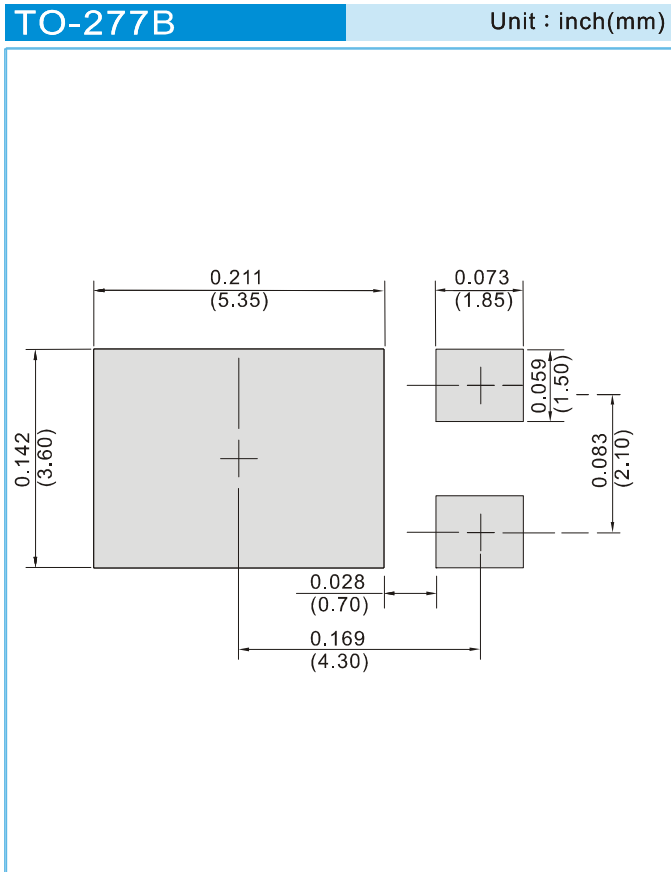


Fig.9 Operating Temperature Derating Curve



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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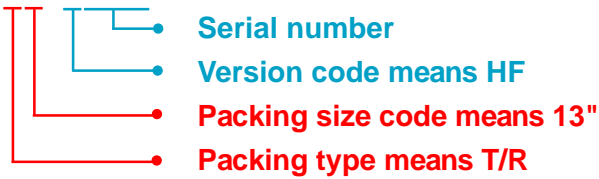
Part No_packing code_Version

SV540B_R2_00001

For example :

RB500V-40_R2_00001

Part No.



| 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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