

SVM1060X

LOW VF SCHOTTKY RECTIFIER

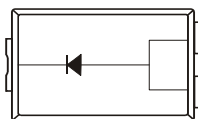
VOLTAGE 60 Volt **CURRENT** 10 Ampere

FEATURES

- Ideal for automated placement
- Extreme 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)

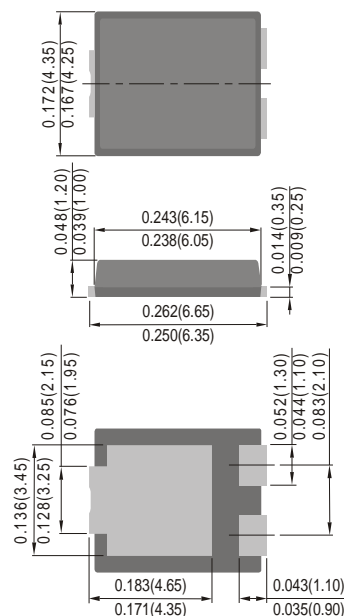
MECHANICAL DATA

- Case : TO-277, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.0037 ounces, 0.1073 grams
- Marking : SVM1060X



TO-277

Unit : inch(mm)



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

| PARAMETER | SYMBOL | VALUE | UNIT |
|---|-----------------------------------|--------------|------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 60 | V |
| Maximum RMS Voltage | V _{RMS} | 42 | V |
| Maximum DC Blocking Voltage | V _R | 60 | V |
| Maximum Average Rectified Output Current | I _{F(AV)} | 10 | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 275 | A |
| Typical Junction Capacitance V _R =4V, 1 MHz | C _J | 850 | pF |
| Typical Thermal Resistance ,Junction to Ambient (Note 2) | R _{θJA} | 110 | °C/W |
| Junction to Case (Note 1) | R _{θJC} | 10 | |
| Operating junction temperature range and Storage temperature range | T _J , T _{STG} | -55 to + 150 | °C |

NOTES :

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



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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 T _A =25°C | 60 | - | - | V |
| Instantaneous forward voltage | V _F | I _F =1A | - | 0.29 | - | V |
| | | I _F =5A T _A =25°C | - | 0.38 | - | |
| | | I _F =10A | - | 0.44 | 0.49 | |
| | | I _F =1A | - | 0.19 | - | V |
| Reverse current | I _R | I _F =5A T _A =125°C | - | 0.31 | - | |
| | | I _F =10A | - | 0.42 | - | |
| | | V _R =42V T _A =25°C | - | 40 | - | μA |
| | | V _R =60V T _A =25°C | - | - | 360 | μA |
| | | T _A =125°C | - | 20 | - | mA |

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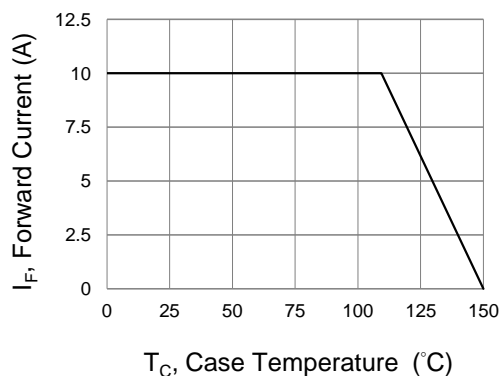


Fig.1 Forward Current Derating Curve

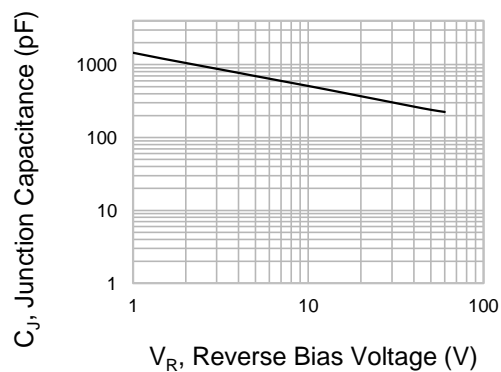


Fig.2 Typical Junction Capacitance

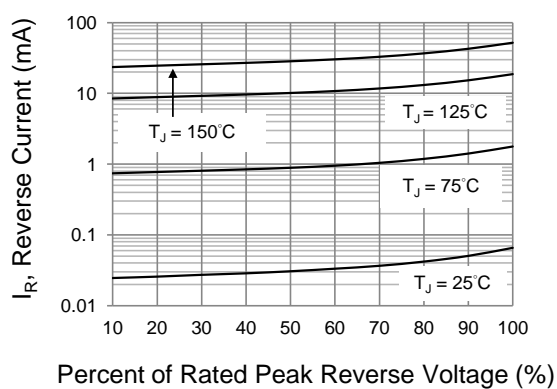


Fig.3 Typical Reverse Characteristics

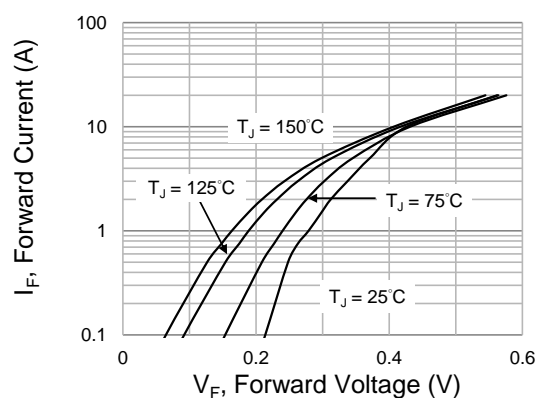


Fig.4 Typical Forward Characteristics

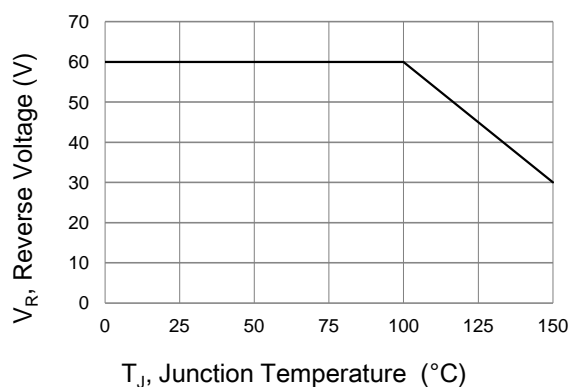
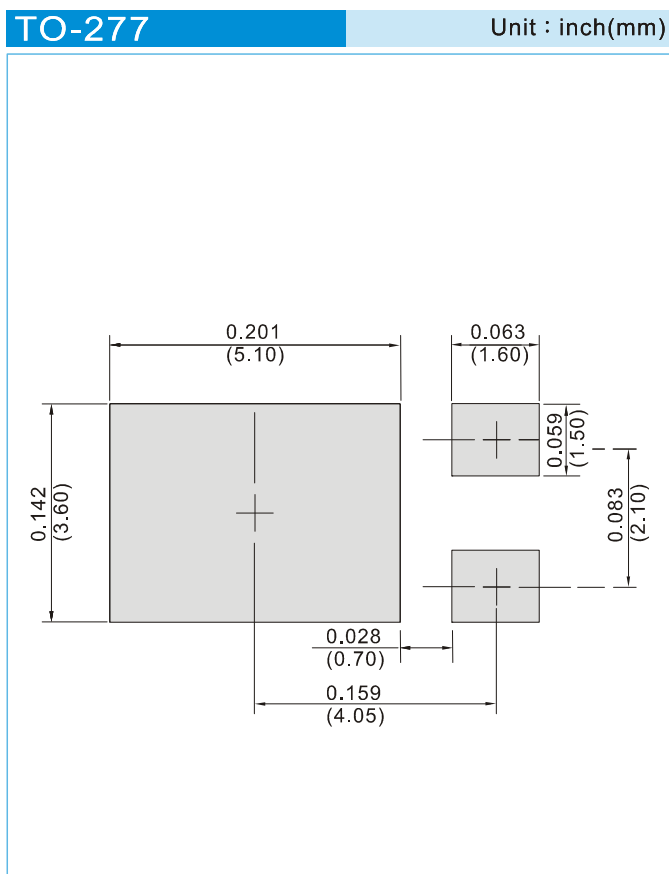


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

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

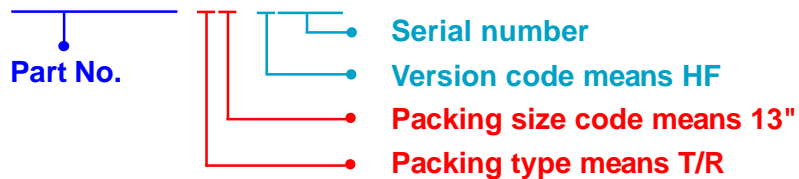
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Part No_packing code_Version

SVM1060X_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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