



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt CURRENT 8 Ampere

FEATURES

- Ideal for automated placement
- Ultra 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 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

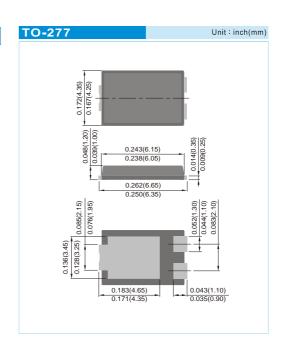
• Case: TO-277, Plastic

• Terminals : Solderable per MIL-STD-750, Method 2026

• Weight: 0.0037 ounces, 0.1073 grams

Marking : Part number





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

| PARAMETER | | SYMBOL | VALUE | UNIT |
|---|----------------------|--------------|--------------|------|
| Maximum Recurrent Peak Reverse Voltage | | VRRM | 60 | V |
| Maximum RMS Voltage | | VRMS | 42 | V |
| Maximum DC Blocking Voltage | | VR | 60 | V |
| Maximum Average Rectified Output Current | | l F(AV) | 8 | Α |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | | IFSM | 150 | Α |
| Typical Thermal Resistance | (Note 1) (Note 2) | Roja Rojc | 110 10 | °C/W |
| Operating Junction Temperature Range And Storage Temperature Range | | Тл,Твтв | -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 100cm2 copper pad area





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

| PARAMETER | SYMBOL | TEST CONDITIONS | | MIN. | TYP. | MAX. | UNIT |
|-------------------------------|--------|--|---|-------------|------------------------------------|----------------|----------|
| Breakdown voltage | VBR | I R=0.5mA | Ta=25°C | 60 | - | - | V |
| Instantaneous forward voltage | VF | F=1A F=5A F=8A F=1A F=5A | Ta=25°C Ta=125°C | - - - | 0.32 0.44 0.5 0.23 0.4 | - - 0.55 | V |
| Davis and a summer | 1- | Vr=42V | | - | 30 | - | μΑ |
| Reverse current | IR | VR=60V | T _A =25°C T _A =125°C | - | - 13 | 220 - | μA mA |





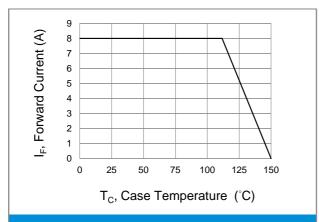


Fig.1 Forward Current Derating Curve

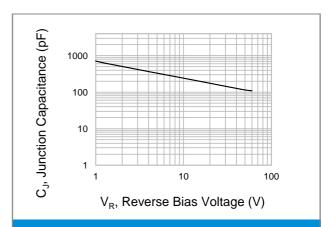


Fig.2 Typical Junction Capacitance

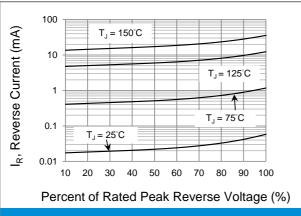


Fig.3 Typical Reverse Characteristics

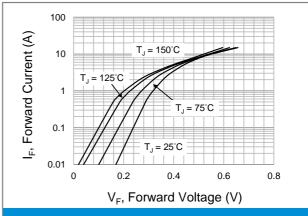


Fig.4 Typical Forward Characteristics

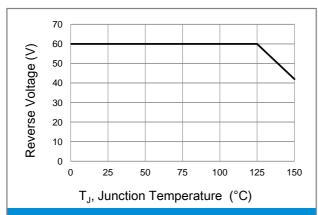
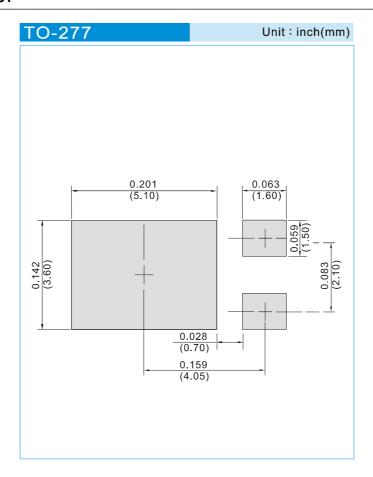


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM860V_R2_00001

For example :



| 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) | Α | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | В | 13" | 2 | | | |
| Tube Packing (T/P) | Т | 26mm | Х | | | |
| 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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