



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 50 Volt CURRENT 15 Ampere

FEATURES

- Ideal for automated placement
- · 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

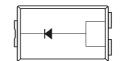
MECHANICAL DATA

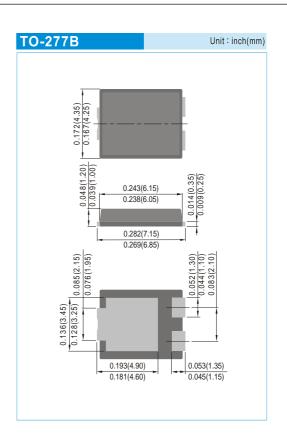
• Case: TO-277B, Plastic

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

• Weight: 0.0038 ounces, 0.1088 grams

Marking : Part number





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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	V
Maximum RMS Voltage			35	V
Maximum DC Blocking Voltage			50	V
Maximum Average Rectified Output Current		I F(AV)	15	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I FSM	275	А
Typical Thermal Resistance	(Note 1) (Note 2)	Rejic Rejia	6 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		ТЈ,Тѕтс	-55 to + 150	°C

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm*0.5mm copper pad area
- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.





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	50	-	-	V
Instantaneous forward voltage	VF	F=1A F=2A F=15A	Ta=25°C	- - -	0.28 0.31 0.44	- - 0.49	V
		F=1A F=2A F=15A	Ta=125°C	- - -	0.18 0.21 0.4	- - -	V
Reverse current	1-	VR=40V	T _A =25°C T _A =125°C	-	65 15	-	μA mA
	IR	VR=50V	T _A =25°C T _A =125°C	-	- 20	320 -	μA mA





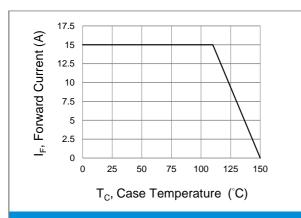


Fig.1 Forward Current Derating Curve

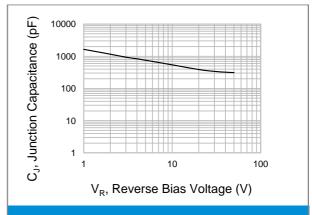


Fig.2 Typical Junction Capacitance

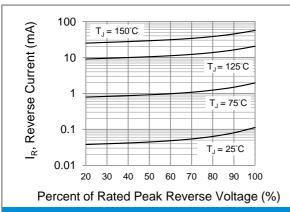


Fig.3 Typical Reverse Characteristics

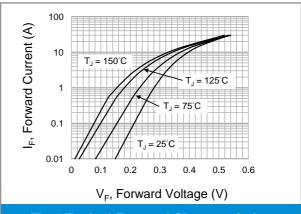


Fig.4 Typical Forward Characteristics

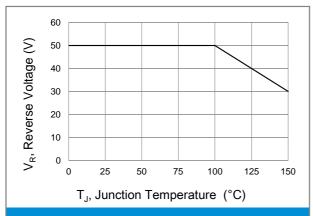
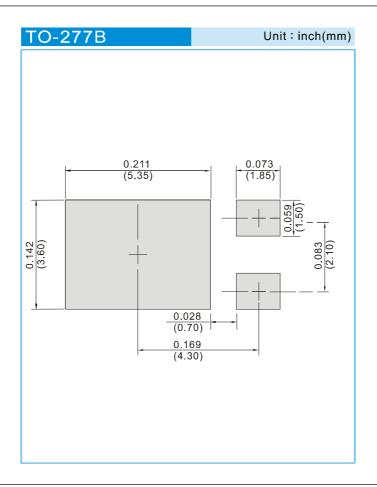


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM1550UB_R2_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF

Packing Code XX **Version Code** 2nd Code HF or RoHS 1st Code 1st Code 2nd~5th Code Packing type Packing size code **Tape and Ammunition Box** Α N/A 0 HF 0 serial number (T/B) Tape and Reel 7" R 1 **RoHS** serial number 1 (T/R) **Bulk Packing** В 13" 2 (B/P) **Tube Packing** Ť 26mm X (T/P) Tape and Reel (Right Oriented) S 52mm Υ (TRR) PANASERT T/B CATHODE UP **Tape and Reel (Left Oriented)** Ĺ U (PBCU) (TRL) PANASERT T/B CATHODE DOWN **FORMING** D (PBCD)

Packing size code means 13"

Packing type means T/R





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