



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 50 Volt CURRENT 15 Ampere

FEATURES

- Ideal for automated placement
- Low forward voltage drop, low power losses
- · 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)

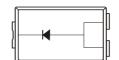
MECHANICAL DATA

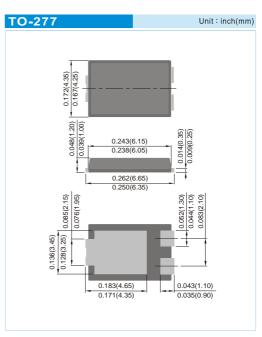
• Case: TO-277, Plastic

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

• Weight: 0.0037 ounces, 0.1073 grams

• Marking: SVM1550U





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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	50	V
Maximum RMS Voltage		VRMS	35	V
Maximum DC Blocking Voltage		VR	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		IFSM	275	А
Typical Thermal Resistance	(Note 1) (Note 2)	Rojc Roja	6 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		ТЈ,Тѕтс	-55 to + 150	°C

NOTES:

- 1.Mounted on an FR4 PCB, single-sided copper, with 10cm*10cm*0.5mm copper pad area
- 2. Mounted on an 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		Ta=25°C	- - - -	0.28 0.31 0.44 0.18 0.21	- 0.49 - -	V
		I F=15A VR=40V	T _A =25°C	-	0.4 65	-	μА
Reverse current	IR	V _R =50V	T _A =125°C T _A =25°C T _A =125°C		15 - 20	320	mA μA mA





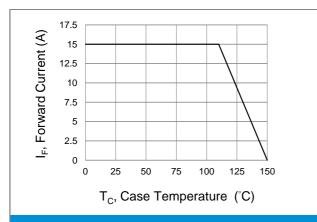


Fig.1 Forward Current Derating Curve

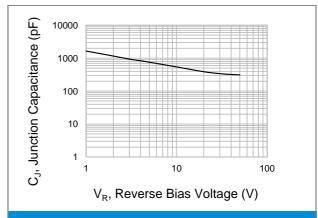


Fig.2 Typical Junction Capacitance

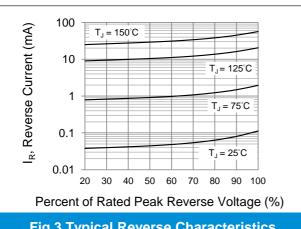


Fig.3 Typical Reverse Characteristics

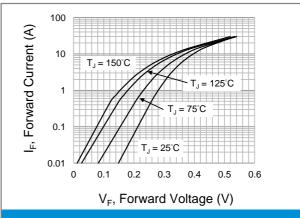


Fig.4 Typical Forward Characteristics

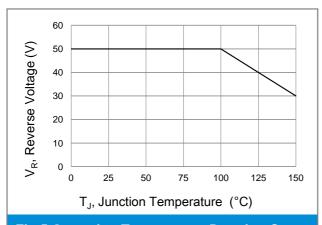
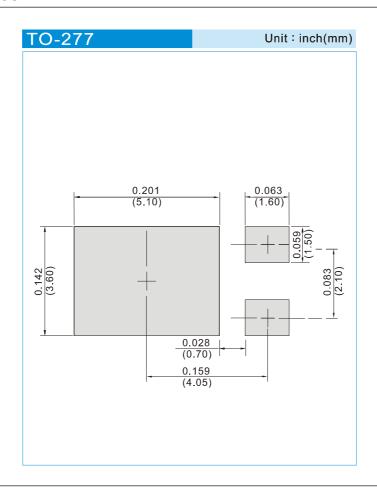


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM1550U_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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