



ULTRA LOW VF SCHOTTKY RECTIFIER

VOLTAGE 50 Volt CURRENT 15 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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

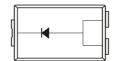
MECHANICAL DATA

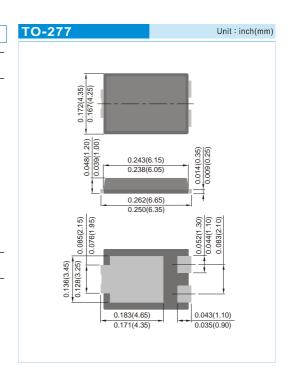
• Case: TO-277, Plastic

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

• Weight: 0.0037 ounces, 0.1073 grams

Marking : 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		VRMS	35	V
Maximum DC Blocking Voltage		VR	50	V
Maximum Average Rectified Output Current		l F(AV)	15	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	280	Α
Typical Thermal Resistance	(Note 1) (Note 2)	Roja Rojc	110 5.5	°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, mini pad.

2.Mounted on a 10cm*10cm*0.5mm 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	T _A =25°C	50	-	-	V
Instantaneous forward voltage	VF	F=1A F=5A F=15A F=1A F=5A	TA=25°C TA=125°C	- - -	0.28 0.35 0.45 0.18 0.28	- 0.51 -	V
Reverse current	l R	VR=40V		-	60	-	μА
		VR=50V	T _A =25°C T _A =125°C	- -	- 25	320 -	μA mA





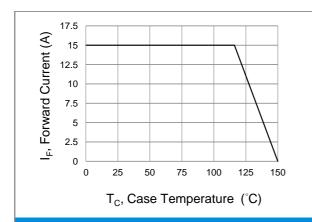


Fig.1 Forward Current Derating Curve

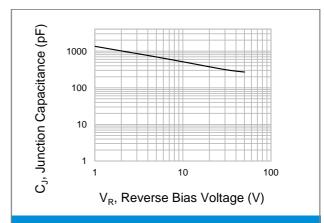


Fig.2 Typical Junction Capacitance

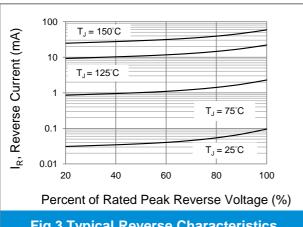


Fig.3 Typical Reverse Characteristics

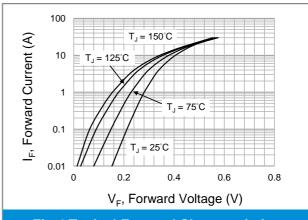


Fig.4 Typical Forward Characteristics

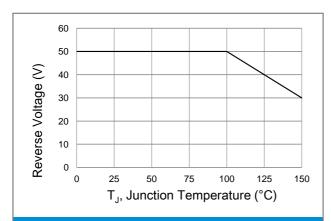
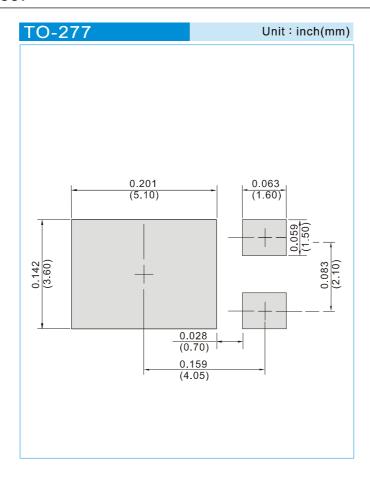


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM1550V_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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