



#### LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

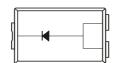
#### **MECHANICAL DATA**

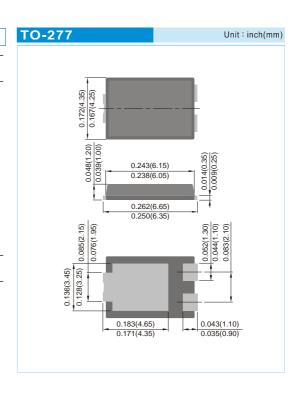
• Case: TO-277, Plastic

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

• Weight: 0.0037 ounces, 0.1073 grams

• Marking : SVM1545L





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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	V
Maximum RMS Voltage		VRMS	32	V
Maximum DC Blocking Voltage		VR	45	V
Maximum Average Rectified Output Current		I F(AV)	15	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		İfsm	275	А
Typical Thermal Resistance	(Note 1) (Note 2)	Røjc Røja	6 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		TJ,Tstg	-55 to + 150	°C

### NOTES:

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



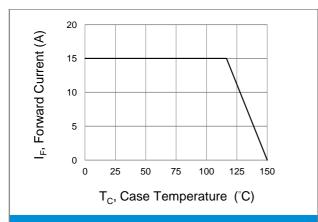


### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

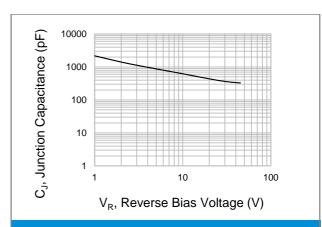
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	Ta=25°C	45	-	-	V
Instantaneous forward voltage	VF	F=1A   F=5A   F=15A	Ta=25°C	- - -	0.28 0.35 0.43	- - 0.49	V
		F=1A   F=5A   F=15A	Ta=125°C	- - -	0.17 0.27 0.38	- - -	V
Reverse current	l R	VR=36V	T <sub>A</sub> =25°C	-	55	-	μΑ
		VR=45V	T <sub>A</sub> =25°C T <sub>A</sub> =125°C	-	- 20	320 -	μA mA







**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

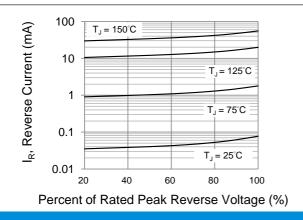
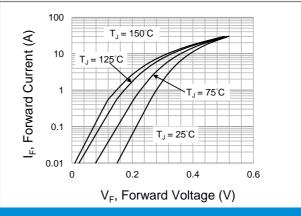
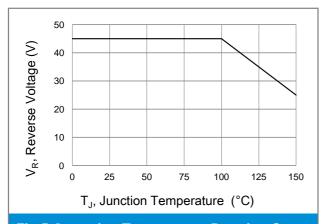


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Forward Characteristics** 

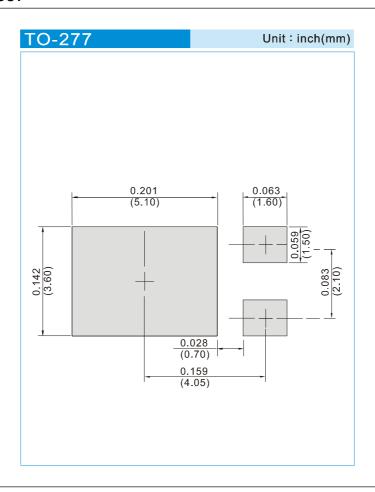


**Fig.5 Operating Temperature Derating Curve** 





#### **MOUNTING PAD LAYOUT**



### ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





### Part No\_packing code\_Version

SVM1545L\_R2\_00001

### For example :



Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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	Υ			
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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