

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)

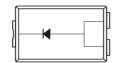
MECHANICAL DATA

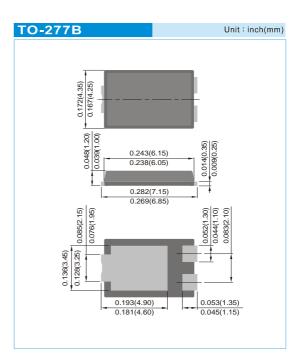
• Case: TO-277B, Plastic

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

• Weight: 0.0038 ounces, 0.1088 grams

• Marking : SVM1545LB





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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	45	٧
Maximum RMS Voltage		VRMS	32	V
Maximum DC Blocking Voltage		VR	45	V
Maximum Average Rectified Output Current		l F(AV)	15	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load			275	А
Typical Thermal Resistance	(Note 1) (Note 2)	Rojc Roja	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 (Ta=25°C unless otherwise noted)

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

June 20,2025 SVM1545LB-REV.03 PAGE . 2



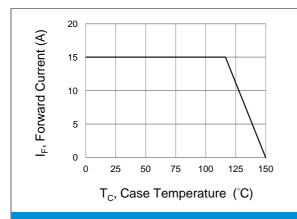


Fig.1 Forward Current Derating Curve

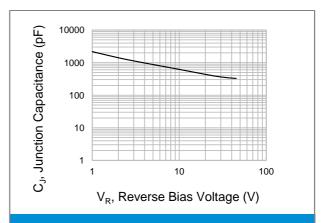


Fig.2 Typical Junction Capacitance

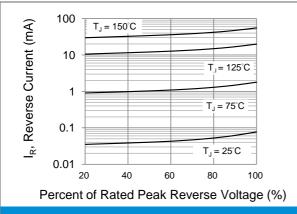


Fig.3 Typical Reverse Characteristics

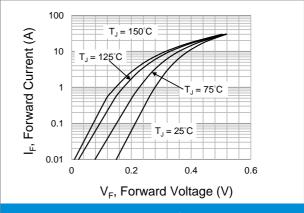


Fig.4 Typical Forward Characteristics

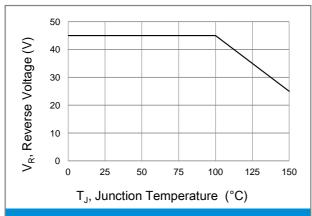


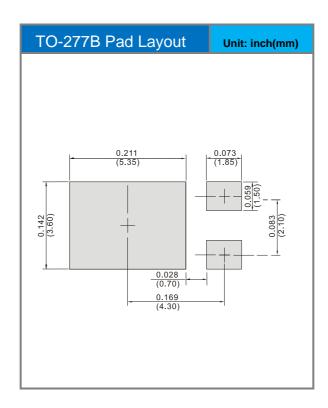
Fig.5 Operating Temperature Derating Curve



Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
SVM1545LB	TO-277B	5K pcs / 13" reel	SVM1545LB	

Mounting Pad Layout



June 20,2025 SVM1545LB-REV.03 PAGE . 4



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June 20,2025 SVM1545LB-REV.03 PAGE .5