## LOW VF SCHOTTKY RECTIFIER 45 Volt

VOLTAGE

#### **FEATURES**

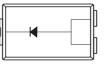
- · Ideal for automated placement
- · Low forward voltage drop, low power loss
- · High efficiency operation
- · Low thermal resistance
- · Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

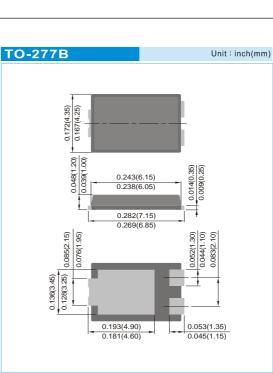
CURRENT

15 Ampere

#### **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			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	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	275	A
Typical Thermal Resistance	(Note 1) (Note 2)	Rejc Reja	6 110	°C/W
Operating Junction Temperature Range And Storage Temperature Range		TJ,TSTG	-55 to + 150	٥C

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.



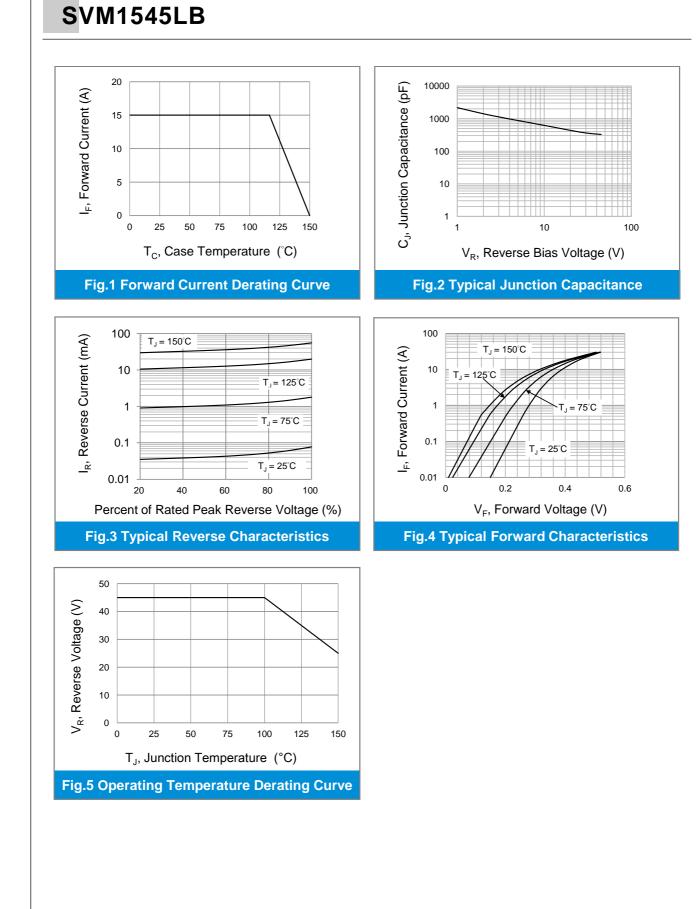
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# SVM1545LB

## ELECTRICAL CHARACTERISTICS (TA=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   F=1A	Ta=25°C	- - - -	0.28 0.35 0.43 0.17	- - 0.49 -	V
		I	Ta=125°C	-	0.27 0.38	-	V
Reverse current	l r	Vr=36V	Ta=25°C	-	55	-	μΑ
		Vr=45V	TA=25°C TA=125°C	-	- 20	320 -	μA mA







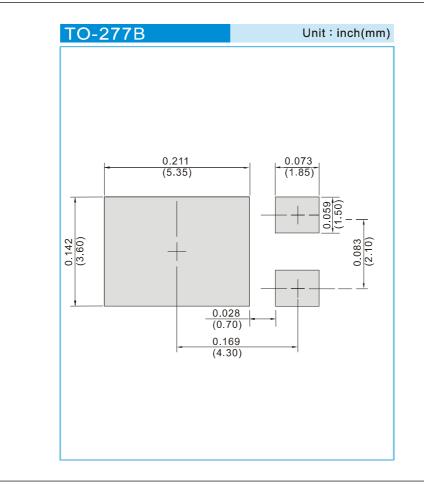






# SVM1545LB

### MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information
- T/R 5K per 13" plastic Reel





# SVM1545LB

## Part No\_packing code\_Version

SVM1545LB\_R2\_00001

## For example :

RB500V-40\_R2\_00001

Part No.

- Serial number

• Version code means HF

- -• Packing size code means 13"
- Packing type means T/R

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	X			
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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