



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volt CURRENT 10 Ampere

FEATURES

- Ideal for automated placement
- Low forward voltage drop, low power loss
- High efficiency Operation
- · Low thermal resistance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

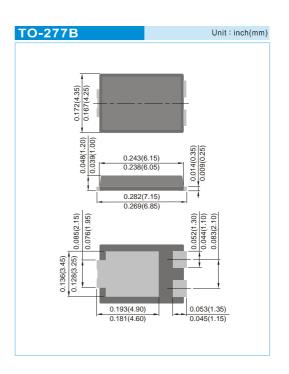
• Case: TO-277B, Plastic

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

• Weight: 0.0038 ounces, 0.1088 grams

Marking : Part number





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

PARAMETER			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		I F(AV)	10	Α
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load		IFSM	275	Α
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Reja Rejic	110 8	°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, with 100cm² copper pad area. 2.Mounted on a 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	VF	F=3A F=5A F=10A F=3A F=5A	T _A =25°C		0.34 0.38 0.44 0.27 0.32	- 0.47 -	V
		I F=10A		-	0.41	-	
Reverse current	IR	VR=36V	T _A =25°C	-	32	0.25	μA mA
		VR=45V	TA=125°C	-	8.6	-	mA





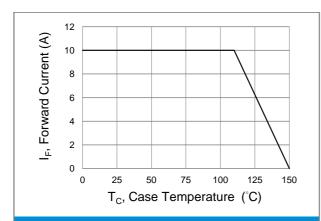


Fig.1 Forward Current Derating Curve

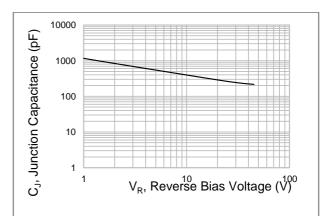


Fig.2 Typical Junction Capacitance

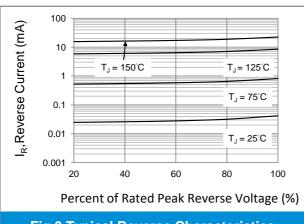


Fig.3 Typical Reverse Characteristics

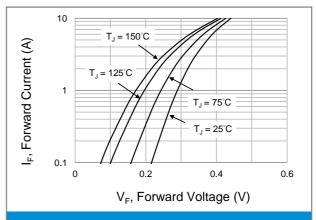


Fig.4 Typical Forward Characteristics

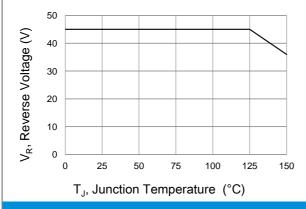
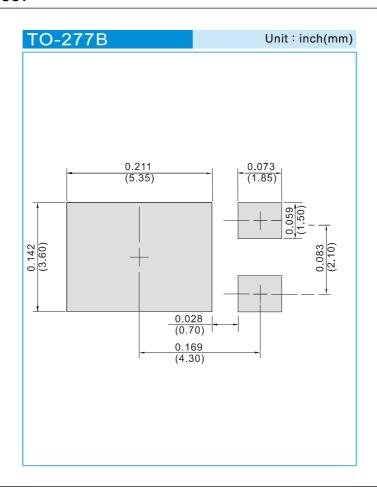


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM1045VB_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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