LOW VF SCHOTTKY RECTIFIER 45 Volt

VOLTAGE

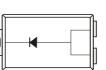
FEATURES

- · 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)

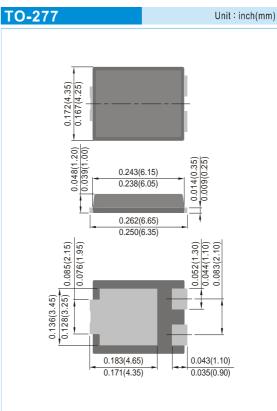
CURRENT

MECHANICAL DATA

- Case : TO-277, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: 0.0037 ounces, 0.1073 grams
- Marking:SVM1045V2



10 Ampere



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

PARAMETER	SYMBOL	VALUE	UNIT		
Maximum Recurrent Peak Reverse Voltage		Vrrm	45	V	
Maximum RMS Voltage			32	V	
Maximum DC Blocking Voltage			45	V	
Maximum Average Rectified Output Current	l f(AV)	10	A		
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load		I FSM	275	А	
Typical Junction capacitance	VR=4V,1MHz	C	860	рF	
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Reja Rejc	110 13	°C/W	
Operating junction temperature range and Storage temperature range			-55 to + 150	°C	

NOTES:

- 1.Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 2.Mounted on an FR4 PCB, single-sided copper, mini pad.

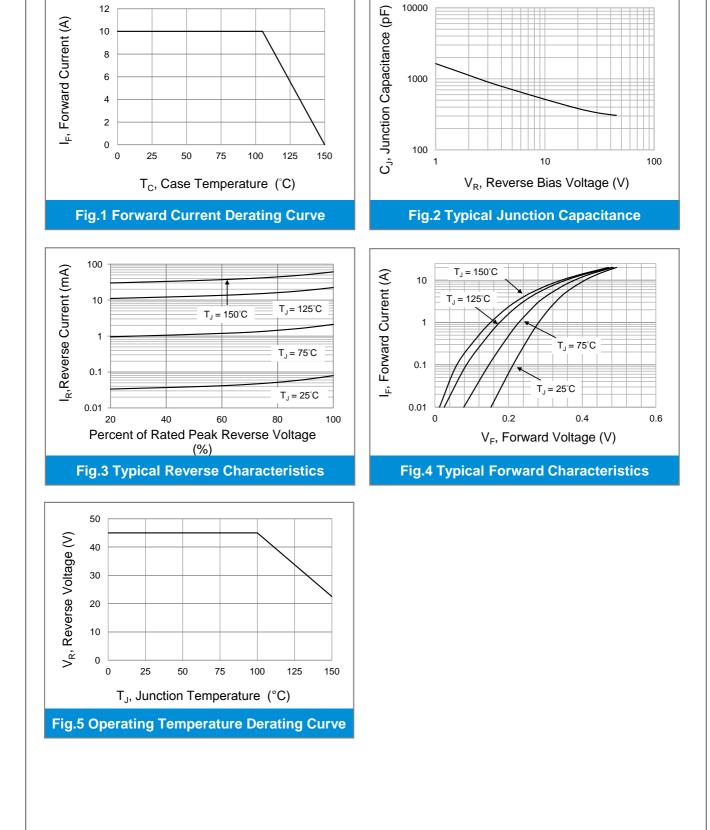


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SVM1045V2

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

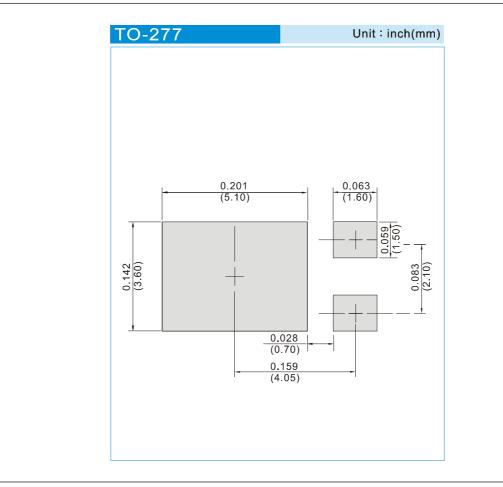
PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA	T _A =25°C	45	-	-	V
Instantaneous forward voltage	VF	I F=1A I F=5A I F=10A	Ta=25°C	- -	0.28 0.36 0.41	- - 0.44	V
		IF=1A IF=5A IF=10A	Ta=125°C	- - -	0.18 0.28 0.36	- - -	V
Reverse current	l r	Vr=36V	Ta=25°C	-	70	-	μΑ
		VR=45V	Ta=25°C Ta=125°C	-	- 35	220 -	μA mA







MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM1045V2_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 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	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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