



LOW VF SCHOTTKY RECTIFIER

VOLTAGE 45 Volt CURRENT 10 Ampere

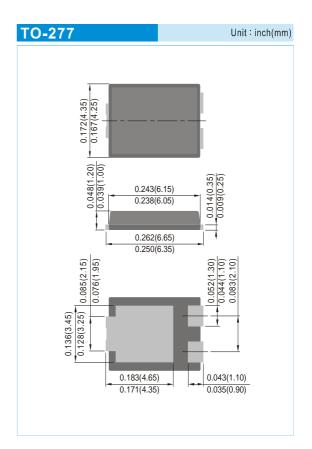
FEATURES

- · Ideal for automated placement
- Low forward voltage drop, low power loss
- · High efficiency Operation
- · Low thermal resistance
- 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:SVM1045V2





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

PARAMETER		SYMBOL	OL VALUE		
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		l f(AV)	10	Α	
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load		I FSM	275	Α	
Typical Junction capacitance	VR=4V,1MHz	CJ	860	pF	
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Roja Rojc	110 13	°C/W	
perating junction temperature range and Storage temperature range		ТЈ,Тѕтс	-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.





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	V-	I F=1A I F=5A I F=10A	Ta=25°C	- - -	0.28 0.36 0.41	- - 0.44	V
	VF	I F=1A I F=5A I F=10A	Ta=125°C	- - -	0.18 0.28 0.36	- - -	V
Reverse current	l R	VR=36V	Ta=25°C	-	70	-	μΑ
		VR=45V	T _A =25°C T _A =125°C	-	- 35	220	μA mA





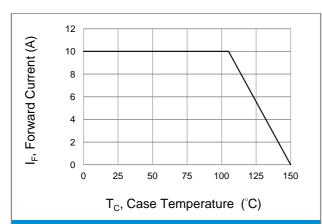


Fig.1 Forward Current Derating Curve

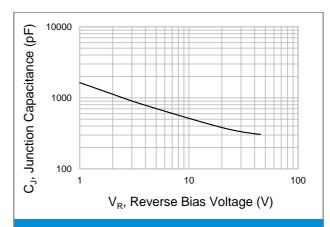


Fig.2 Typical Junction Capacitance

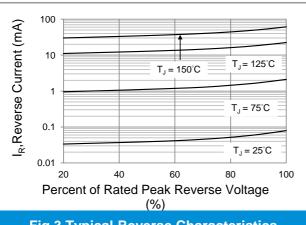


Fig.3 Typical Reverse Characteristics

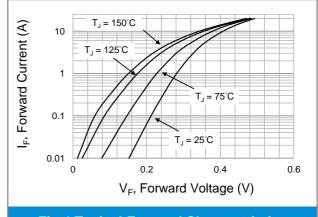


Fig.4 Typical Forward Characteristics

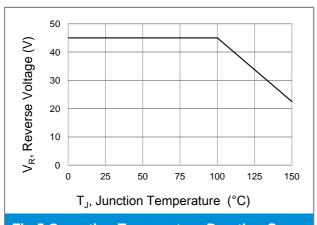
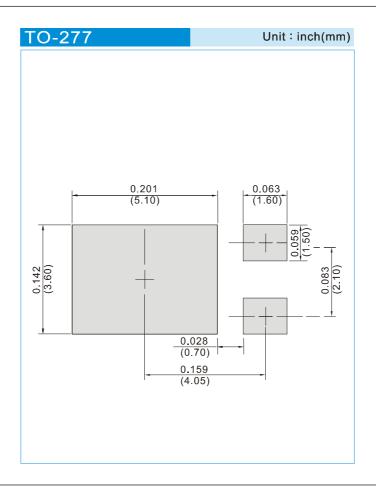


Fig.5 Operating Temperature Derating Curve





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 5K per 13" plastic Reel

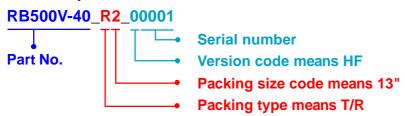




Part No_packing code_Version

SVM1045V2_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	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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