

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volt CURRENT 10 Ampere

FEATURES

- · Ideal for automated placement
- · Extreme low forward voltage drop, low power losses
- · 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 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

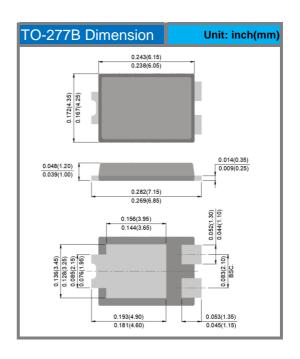
· Case: TO-277B, Plastic

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

· Weight: 0.0038 ounces, 0.1088 grams

Marking : SVM1060XB





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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage			60	V
Maximum RMS Voltage	VRMS	42	V	
Maximum DC Blocking Voltage		Vr	60	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		İFSM	275	Α
Typical Junction Capacitance	VR=4V,1MHz	C¹	850	pF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Røja Røjc	110 10	°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 100cm ² 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	Ta=25°C	60	-	-	٧
Instantaneous forward voltage	VF	I F=1A I F=5A I F=10A	Ta=25°C		0.29 0.38 0.44	- - 0.49	V
			T _A =125°C		0.19 0.31 0.42		V
Reverse current	lr	V _R =42V	T _A =25°C	-	40	-	μΑ
		V _R =60V	T _A =25°C T _A =125°C		- 20	360 -	μA mA

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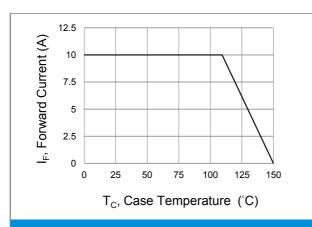


Fig.1 Forward Current Derating Curve

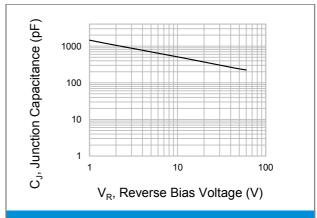


Fig.2 Typical Junction Capacitance

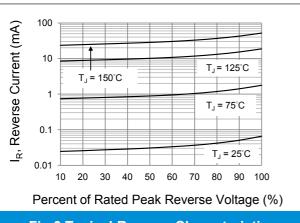


Fig.3 Typical Reverse Characteristics

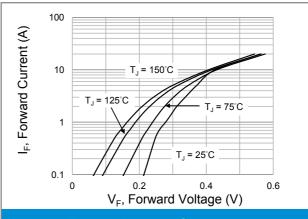


Fig.4 Typical Forward Characteristics

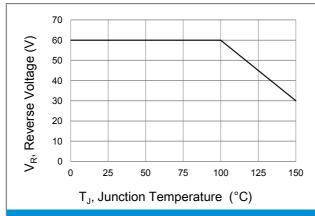
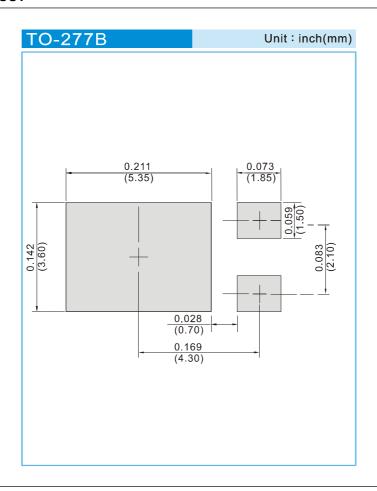


Fig.5 Operating Temperature Derating Curve



MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 5K per 13" plastic Reel

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