



# SVM1060XB

## LOW VF SCHOTTKY RECTIFIER

**VOLTAGE** 60 Volt

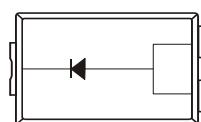
**CURRENT** 10 Ampere

### 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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

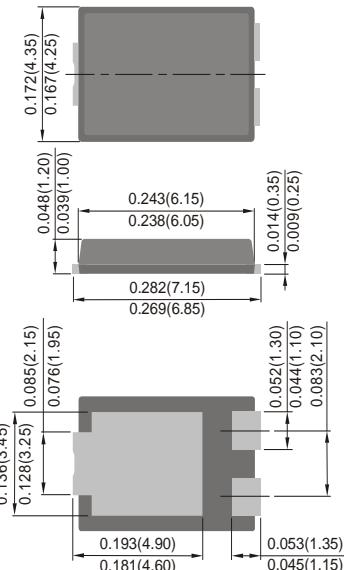
### MECHANICAL DATA

- Case : TO-277B, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight : 0.0038 ounces, 0.1088 grams
- Marking : SVM1060XB



**TO-277B**

Unit : inch(mm)



### MAXIMUM RATINGS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum RMS Voltage	V <sub>RMS</sub>	42	V
Maximum DC Blocking Voltage	V <sub>R</sub>	60	V
Maximum Average Rectified Output Current	I <sub>F(AV)</sub>	10	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	275	A
Typical Junction Capacitance	C <sub>J</sub>	850	pF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	110 10	°C/W
Operating junction temperature range and Storage temperature range	T <sub>J,TSTG</sub>	-55 to + 150	°C

#### NOTES :

- 1.Mounted on an FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.
- 2.Mounted on an FR4 PCB, single-sided copper, mini pad.



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## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	$V_{BR}$	$I_R=0.5mA$ $T_A=25^\circ C$	60	-	-	V
Instantaneous forward voltage	$V_F$	$I_F=1A$ $T_A=25^\circ C$	-	0.29	-	
		$I_F=5A$ $T_A=25^\circ C$	-	0.38	-	V
		$I_F=10A$	-	0.44	0.49	
	$I_R$	$I_F=1A$ $T_A=125^\circ C$	-	0.19	-	
		$I_F=5A$ $T_A=125^\circ C$	-	0.31	-	V
		$I_F=10A$	-	0.42	-	
Reverse current	$I_R$	$V_R=42V$ $T_A=25^\circ C$	-	40	-	$\mu A$
		$V_R=60V$ $T_A=25^\circ C$ $T_A=125^\circ C$	-	-	360	$\mu A$ mA
			-	20	-	



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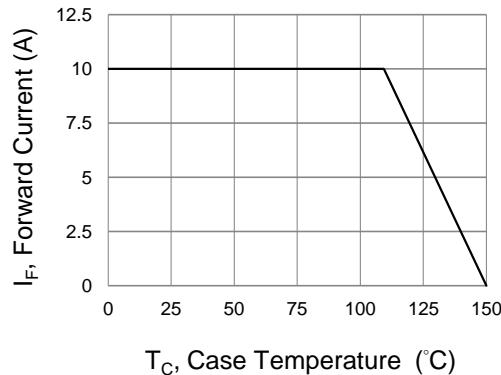


Fig.1 Forward Current Derating Curve

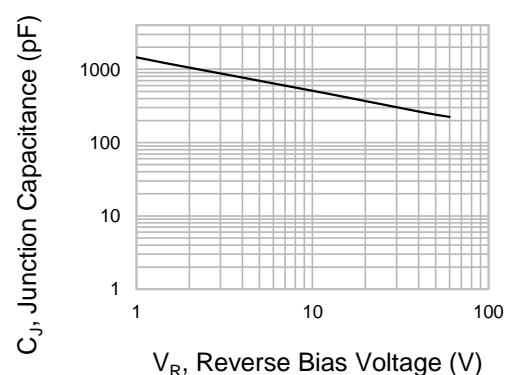


Fig.2 Typical Junction Capacitance

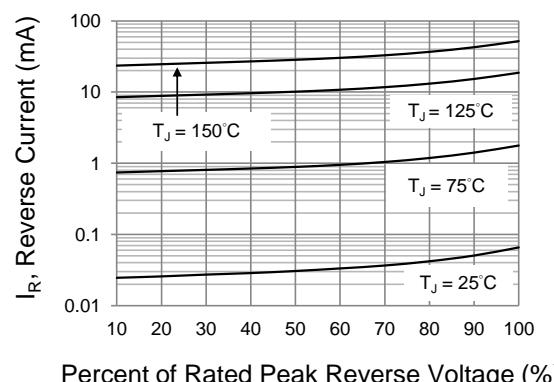


Fig.3 Typical Reverse Characteristics

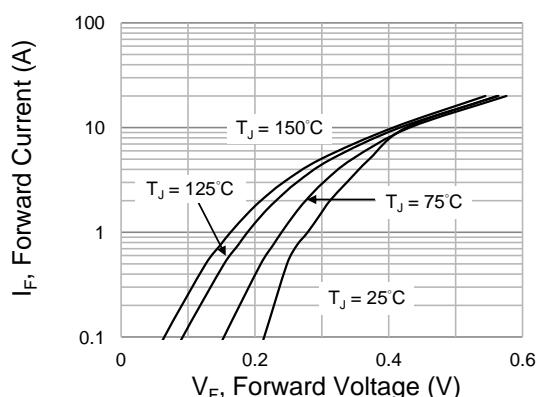


Fig.4 Typical Forward Characteristics

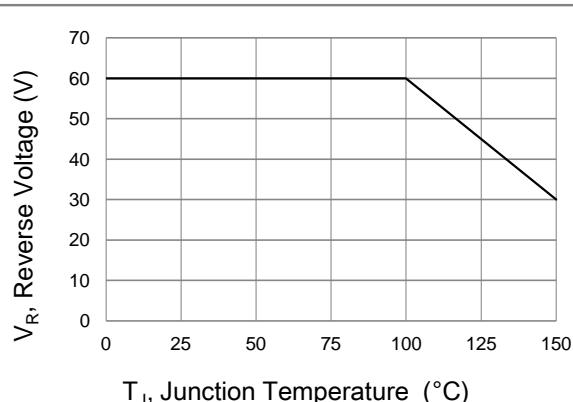


Fig.5 Operating Temperature Derating Curve

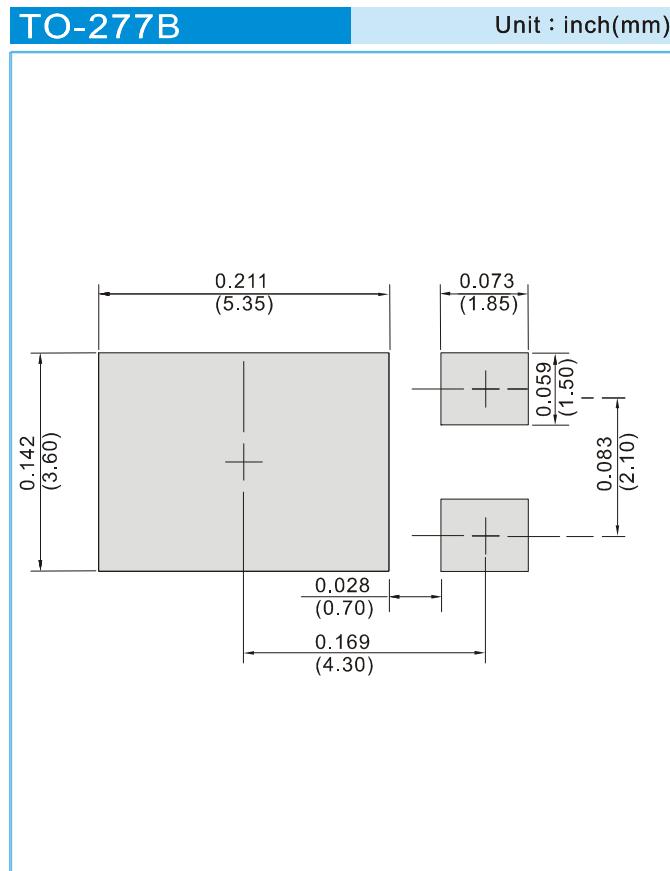


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## MOUNTING PAD LAYOUT

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## ORDER INFORMATION

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



# SVM1060XB

## Part No\_packing code\_Version

SVM1060XB\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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 (PBKD)	D			



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