

SVM1060XB

LOW VF SCHOTTKY RECTIFIER

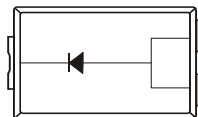
VOLTAGE 60 Volt **CURRENT** 10 Ampere

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 2.0
- Green molding compound as per IEC 61249 standard

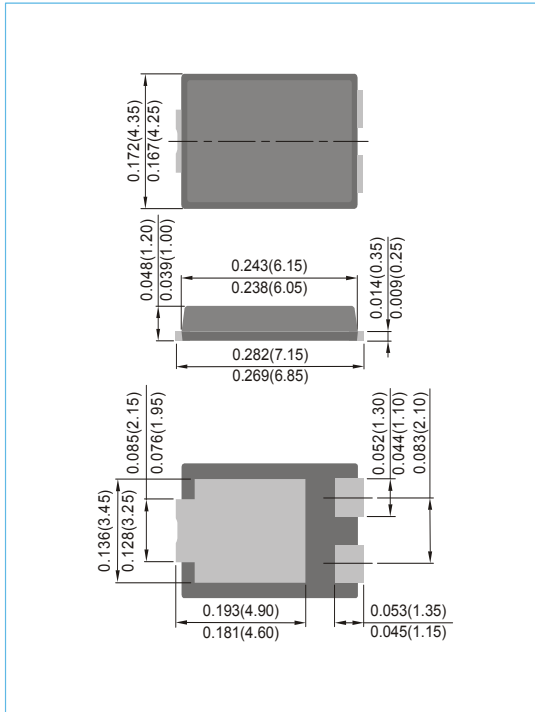
MECHANICAL DATA

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



TO-277B

Unit : inch(mm)



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

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	60	V
Maximum RMS Voltage	V _{RMS}	42	V
Maximum DC Blocking Voltage	V _R	60	V
Maximum Average Rectified Output Current	I _{F(AV)}	10	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	275	A
Typical Junction Capacitance V _R =4V, 1MHz	C _J	850	pF
Typical Thermal Resistance ,Junction to Ambient (Note 2)	R _{θJA}	110	°C/W
Junction to Case (Note 1)	R _{θJC}	10	
Operating junction temperature range and Storage temperature range	T _J ,T _{STG}	-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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ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V _{BR}	I _R =0.5mA T _A =25°C	60	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	-	0.29	-	V
		I _F =5A T _A =25°C	-	0.38	-	
		I _F =10A	-	0.44	0.49	
		I _F =1A	-	0.19	-	V
Reverse current	I _R	I _F =5A T _A =125°C	-	0.31	-	
		I _F =10A	-	0.42	-	
		V _R =42V T _A =25°C	-	40	-	μA
		V _R =60V T _A =25°C	-	-	360	μA
		T _A =125°C	-	20	-	mA

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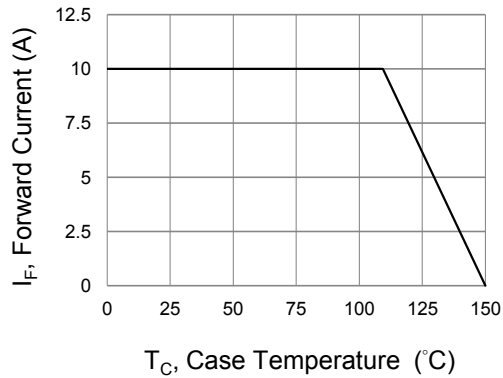


Fig.1 Forward Current Derating Curve

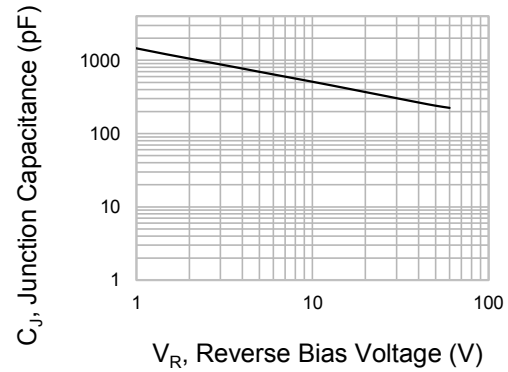


Fig.2 Typical Junction Capacitance

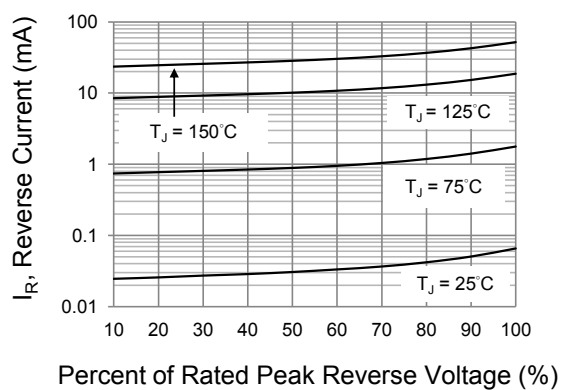


Fig.3 Typical Reverse Characteristics

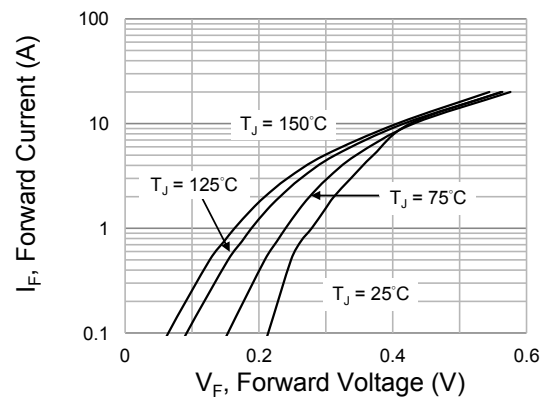


Fig.4 Typical Forward Characteristics

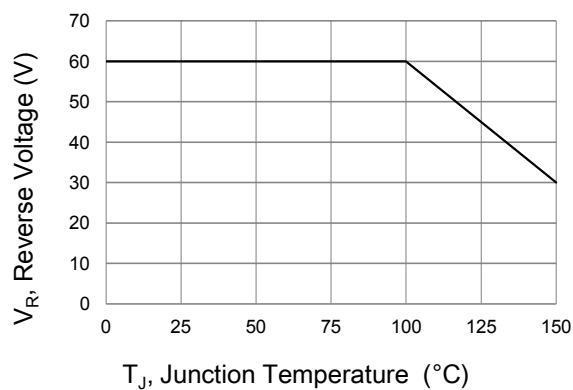
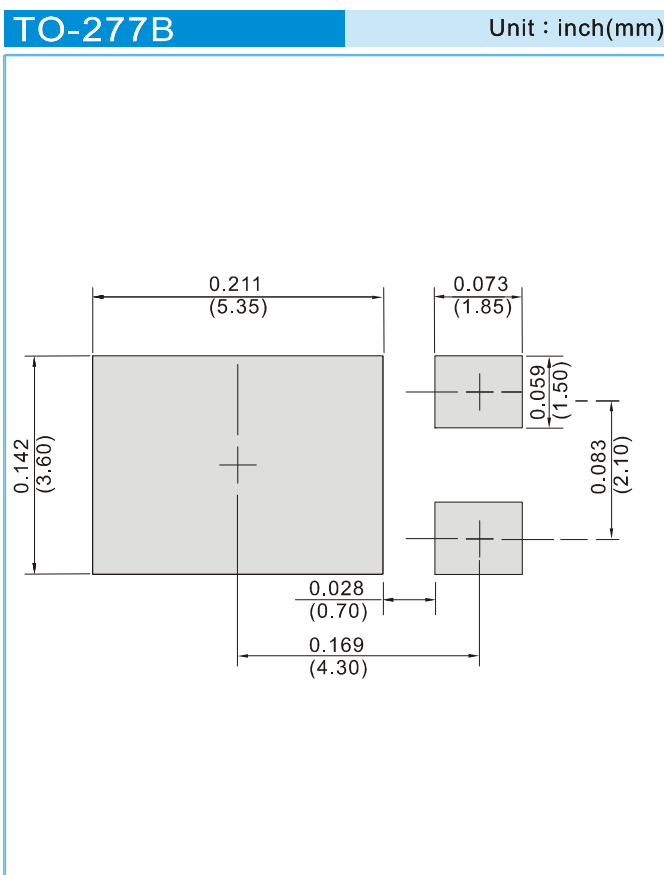


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



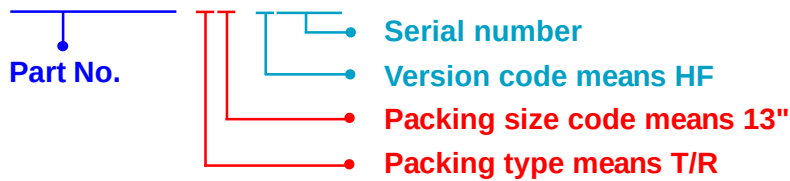
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Part No_packing code_Version

SVM1060XB_R2_00001

For example :

RB500V-40_R2_00001



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)	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 (PBCD)	D			



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