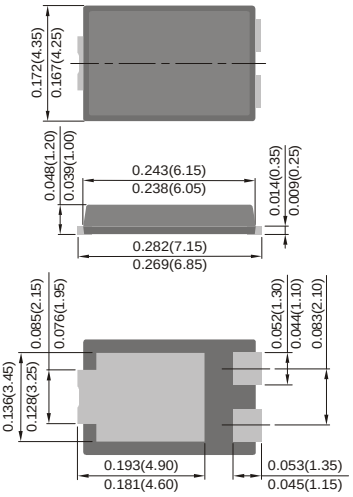
SVM1060XB

LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts **CURRENT** 10 Amperes

TO-277B Unit : inch(mm)



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 comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

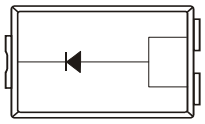
MECHANICAL DATA

Case : TO-277B, Plastic

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

Weight : 0.0038 ounces, 0.1088 grams

Marking : SVM1060XB



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 (JEDEC method)	I_{FSM}	275	A
Typical Junction Capacitance V_R=4V,1MHz	C_J	850	pF
Typical Thermal Resistance ,Junction to Ambient (Note 2) Junction to Case (Note 1)	$R_{\Theta JA}$ $R_{\Theta JC}$	110 10	°C/W
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 I_F=5A I_F=10A	T_A=25°C	- - -	0.29 0.38 0.44	- - 0.49	V
		I_F=1A I_F=5A I_F=10A	T_A=125°C	- - -	0.19 0.31 0.42	- - -	V
Reverse current	I_R	V_R=42V	T_A=25°C	-	40	-	μA
		V_R=60V	T_A=25°C T_A=125°C	- -	- 20	360 -	μA mA

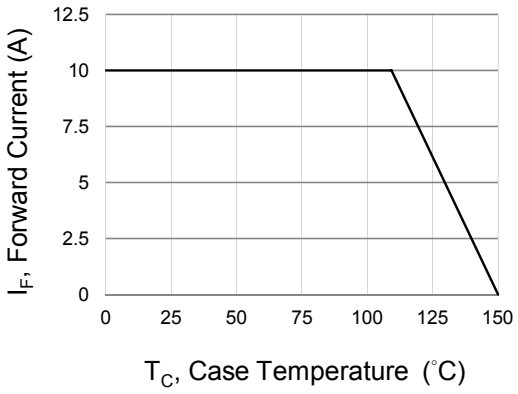

Fig.1 Forward Current Derating Curve

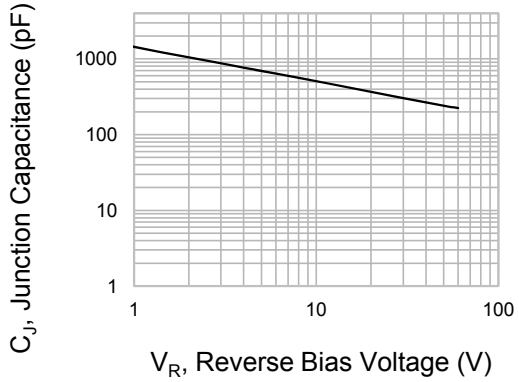

Fig.2 Typical Junction Capacitance

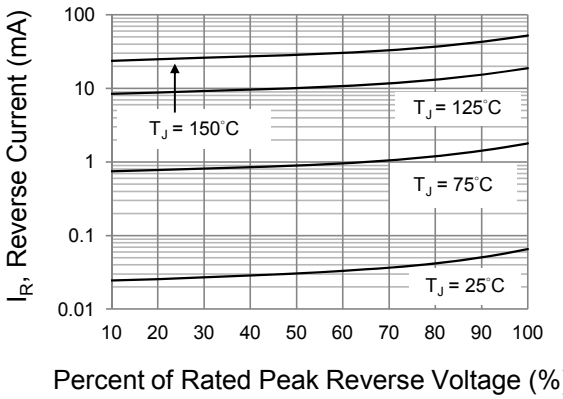

Fig.3 Typical Reverse Characteristics

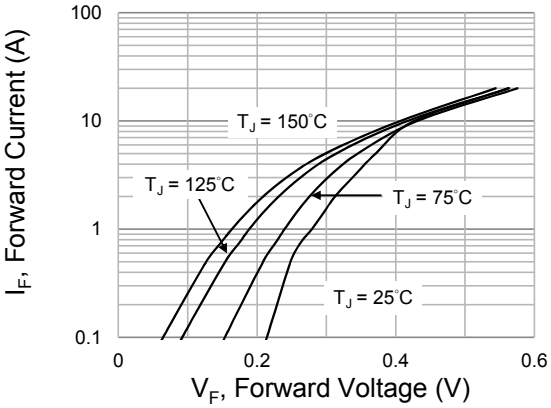

Fig.4 Typical Forward Characteristics

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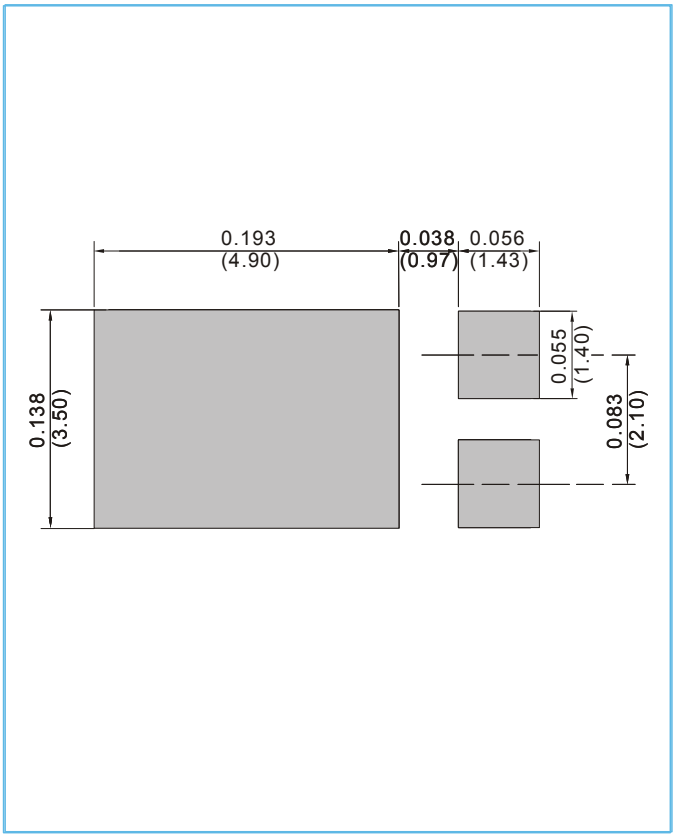
MOUNTING PAD LAYOUT

TO-277B Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 5K per 13" plastic Reel

SVM1060XB

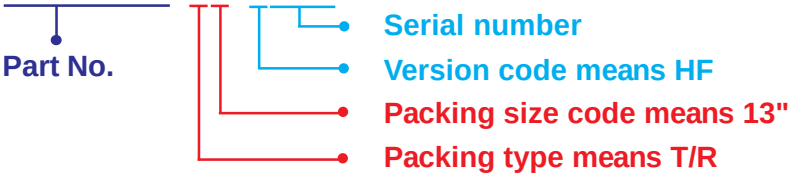
Part No_packing code_Version

SVM1060XB_R2_00001

SVM1060XB_10001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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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