SVM860U

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

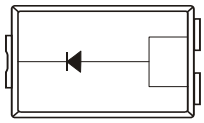
VOLTAGE	60 Volt	CURRENT	8 Ampere

FEATURES

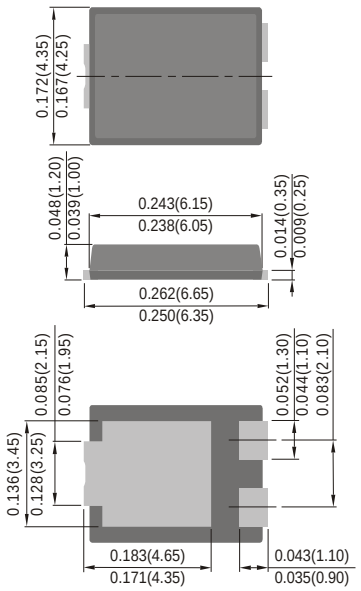
- Ideal for automated placement
- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra Thin Profile Package for Space Constrained Utilization
- Package suitable for Automated Handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- 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 : Part number



TO-277 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	$I_{F(AV)}$	8	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	200	A
Typical Thermal Resistance, Junction to Case (Note 1) Junction to Ambient (Note 1)	$R_{\Theta JC}$ $R_{\Theta JA}$	9 33	°C/W
Operating Junction Temperature and Storage Temperature range	T_J,T_{STG}	-55 to + 150	°C

NOTE : 1.Mounted on 50cm^2 (2oz) Copper pad rea.

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ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Break down voltage	V_{BR}	I_R=0.5mA	T_A=25°C	60	-	-	V
Instantaneous forward voltage	V_F	I_F=0.1A I_F=1A I_F=4A I_F=8A	T_A=25°C	- -	0.21 0.29 0.39 0.47	- 0.35 - 0.53	V
		I_F=0.1A I_F=1A I_F=4A I_F=8A	T_A=125°C	- - - -	0.1 0.2 0.34 -	- - - -	V
Reverse current	I_R	V_R=48V	T_A=25°C	-	55	-	μA
		V_R=60V	T_A=25°C T_A=125°C	- -	0.1 20	0.25 -	mA mA

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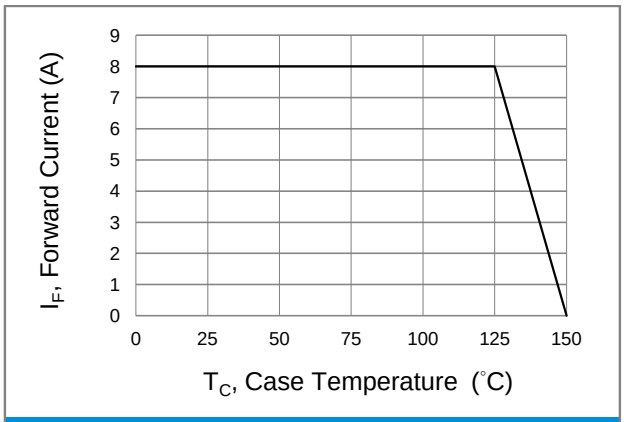


Fig.1 Forward Current Derating Curve

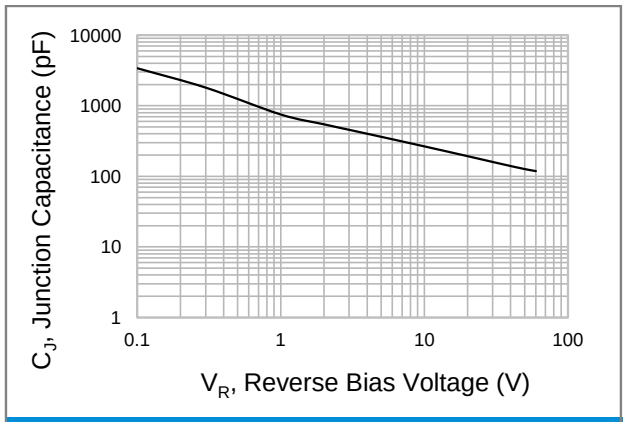


Fig.2 Typical Junction Capacitance

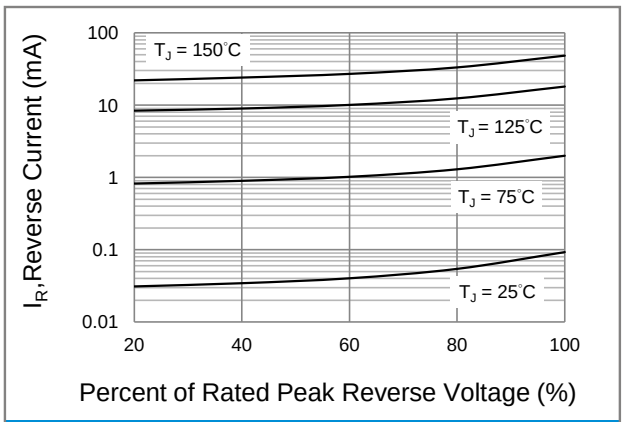


Fig.3 Typical Reverse Characteristics

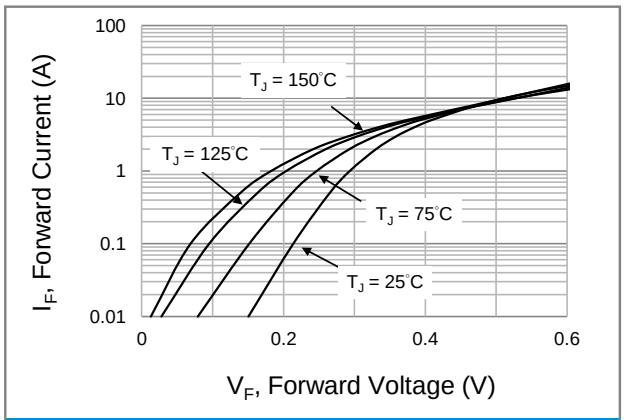


Fig.4 Typical Forward Characteristics

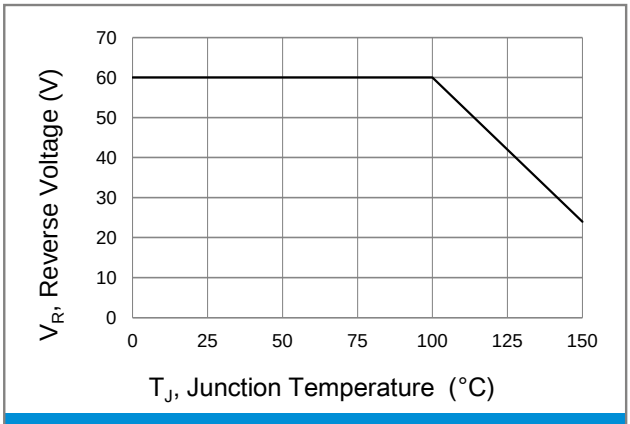
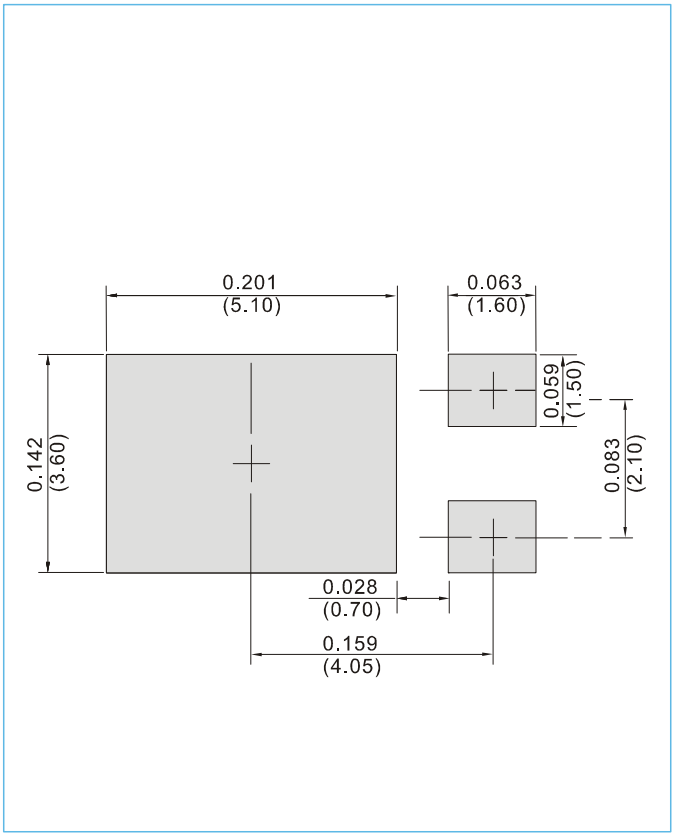


Fig.5 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT

TO-277 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 5K per 13" plastic Reel

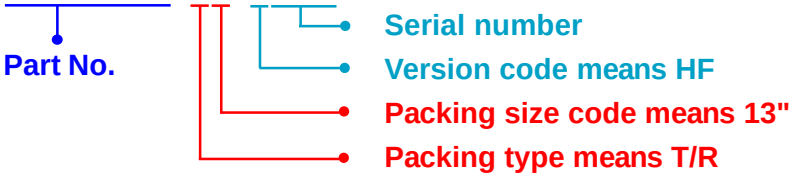
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Part No_packing code_Version

SVM860U_R2_00001

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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