

SVM860U

LOW VF SCHOTTKY BARRIER RECTIFIER

VOLTAGE 60 Volts **CURRENT** 8 Amperes

FEATURES

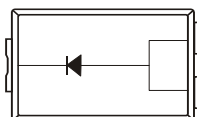
- Ideal for automated placement
- Low forward voltage drop, low power losses
- High efficiency Operation
- Low thermal resistance
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case : TO-277, Plastic

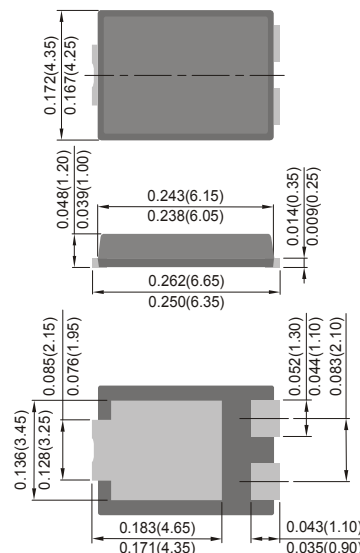
Terminals : Solderable per MIL-STD-750, Method 2026

Weight : 0.0037 ounces, 0.1073 grams



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
Average Rectified Output Current	I _{F(AV)}	8	A
Peak Forward Surge Current:8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	280	A
Typical Thermal Resistance, Junction to Case (Note 1)	R _{θJC}	9	°C/W
Junction to Ambient (Note 1)	R _{θJA}	33	°C/W
Operating Junction Temperature and Storage Temperature range	T _J ,T _{STG}	-55 to + 150	°C

NOTE:

- 1.Mounted on 50cm² (2oz) Copper pad area.

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ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ 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		0.21	-	V	
		I _F =1A	T _A =25°C	-	0.29		0.35
		I _F =4A		-	0.39		-
		I _F =8A			0.47		0.53
		I _F =0.1A			0.10	-	V
		I _F =1A	T _A =125°C	-	0.20	-	
I _F =4A		-	0.34	-			
I _F =8A			0.48	-			
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	0.6 -	mA mA	

RATING AND CHARACTERISTIC CURVES

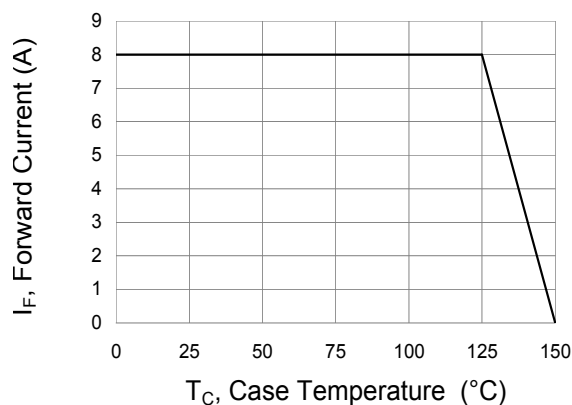


Fig.1 Forward Current Derating Curve

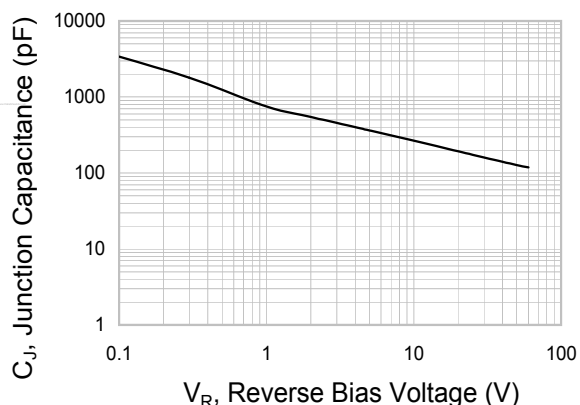


Fig.2 Typical Junction Capacitance

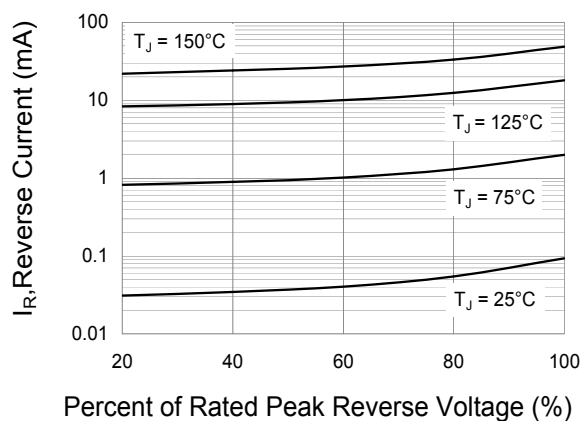


Fig.3 Typical Reverse Characteristics

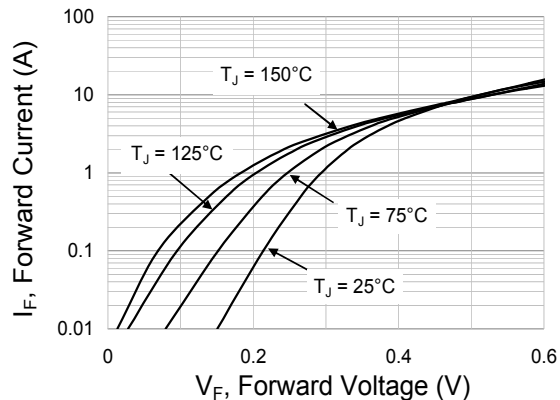
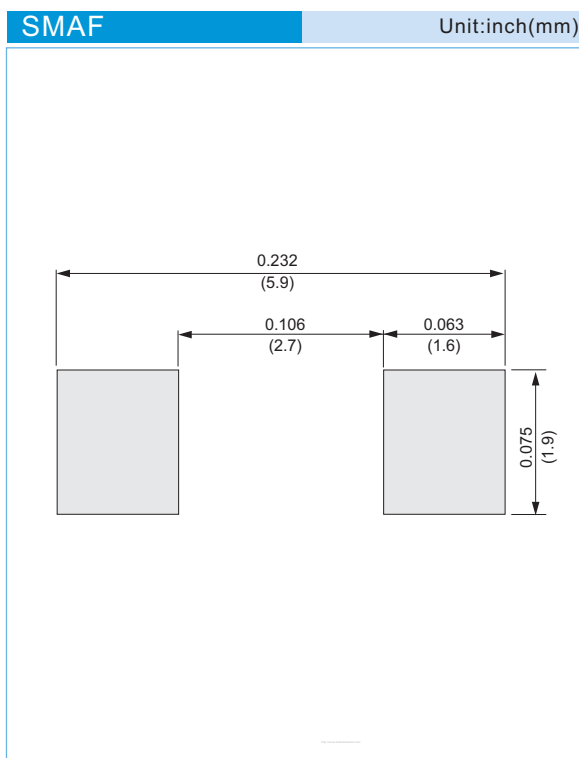


Fig.4 Typical Forward Characteristics

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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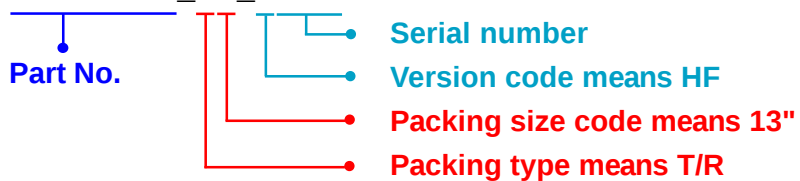
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For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

SVM860U_R2_00001

SVM860U_00001