



### **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)

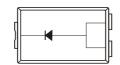
#### **MECHANICAL DATA**

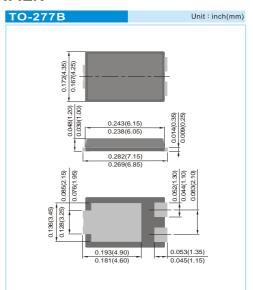
• Case: TO-277B, Plastic

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

• Weight: 0.0038 ounces, 0.1088 grams

· Marking: Part number





### MAXIMUM RATINGS (TA=25°C unless otherwise noted)

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	60	V
Maximum RMS Voltage		VRMS	42	V
Maximum DC Blocking Voltage		VR	60	V
Maximum Average Rectified Output Current		I F(AV)	8	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I FSM	200	Α
Typical Thermal Resistance, Junction to Case Junction to Ambient	(Note 1) (Note 1)	Rojc Roja	9 33	°C/W
Operating Junction Temperature and Storage Temperature range		Тл,Тѕтс	-55 to + 150	°C

NOTE: 1.Mounted on 50cm<sup>2</sup> (2oz) Copper pad rea.



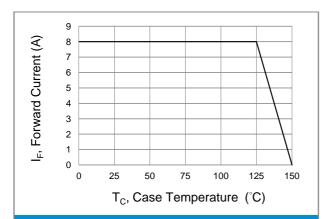


### ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Break down voltage	VBR	I R=0.5mA	Ta=25°C	60	-	-	V
Instantaneous forward voltage	VF	IF=0.1A IF=1A IF=4A IF=8A IF=0.1A IF=1A IF=4A IF=8A	T <sub>A</sub> =25°C	- - - -	0.21 0.29 0.39 0.47 0.1 0.2 0.34	- 0.35 - 0.53 - - -	V
Reverse current	l R	VR=48V	Ta=25°C	-	55	-	μА
		V <sub>R</sub> =60V	Ta=25°C Ta=125°C	-	0.1 20	0.25 -	mA mA







**Fig.1 Forward Current Derating Curve** 

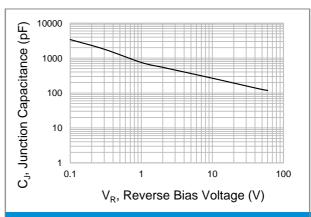


Fig.2 Typical Junction Capacitance

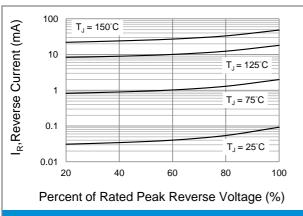
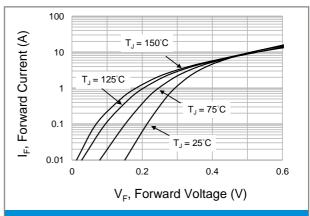
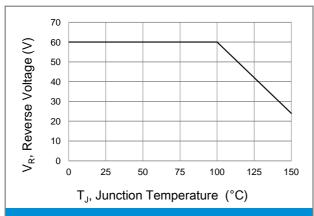


Fig.3 Typical Reverse Characteristics



**Fig.4 Typical Forward Characteristics** 

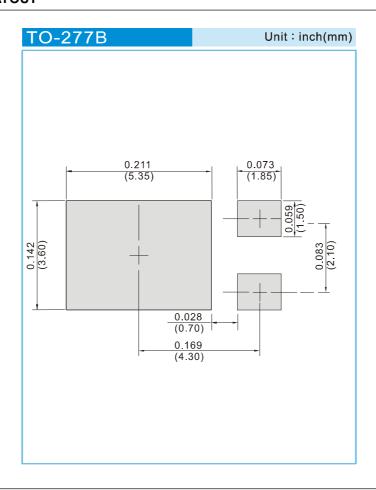


**Fig.5 Operating Temperature Derating Curve** 





### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

• Packing information

T/R - 5K per 13" plastic Reel





### Part No\_packing code\_Version

SVM860UB\_R2\_00001

## For example :



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