



## **EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER**

VOLTAGE 60 Volts CURRENT 8 Amperes TO-27

## **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**

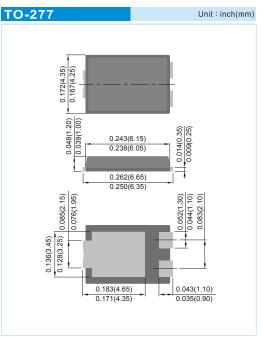
Case: TO-277, Plastic

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

Weight: 0.0037 ounces, 0.1073 grams

Marking: SVM860U





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

PARAMETER			VALUE	UNIT
Maximum Recurrent Peak Reverse Voltage		VRRM	60	٧
Maximum RMS Voltage		VRMS	42	V
Maximum DC Blocking Voltage		VR	60	V
Maximum Average Rectified Output Current		l f(AV)	8	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	200	Α
Typical Thermal Resistance, Junction to Case Junction to Ambient	(Note 1) (Note 1)	Røjc Røja	9 33	°C/W
Operating Junction Temperature and Storage Temperature range		ТЈ,Тѕтс	-55 to + 150	°C

NOTE: 1.Mounted on 50cm2 (2oz) Copper pad rea.

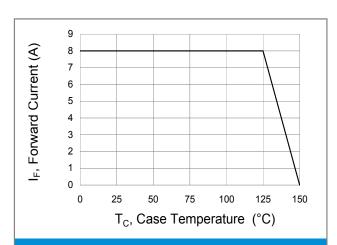




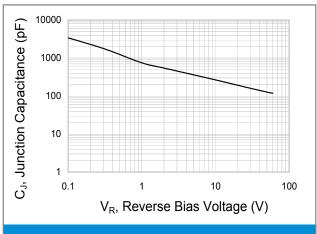
## ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

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

## **RATING AND CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 



**Fig.2 Typical Junction Capacitance** 

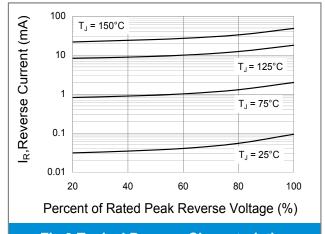
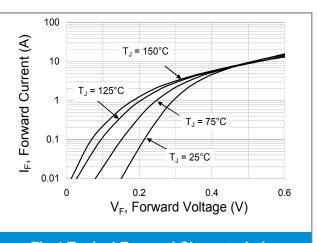


Fig.3 Typical Reverse Characteristics

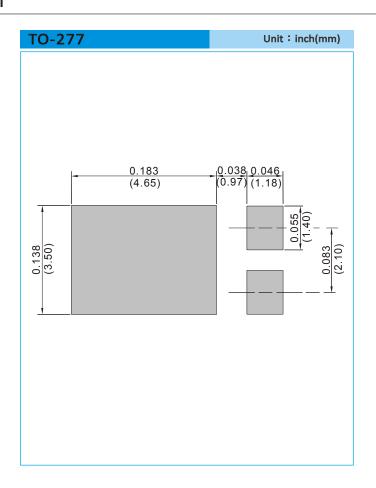


**Fig.4 Typical Forward Characteristics** 





## **MOUNTING PAD LAYOUT**



## **ORDER INFORMATION**

Packing information

T/R - 5K per 13" plastic Reel





## Part No\_packing code\_Version

SVM860U\_R2\_00001

# For example : RB500V-40\_R2\_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1st Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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)	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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