



EXTREME LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts CURRENT 15 Amperes

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)

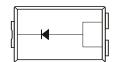
MECHANICAL DATA

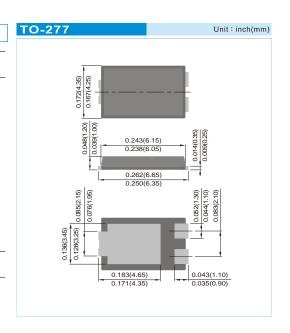
Case: TO-277, Plastic

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

Weight: 0.0037 ounces, 0.1073 grams

Marking: SVM1560U





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)	15	Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I FSM	300	Α
Typical Junction Capacitance	VR=4V,1MHz	C¹	850	pF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	(Note 2) (Note 1)	Røja Røjc	110 6	°C/W
Operating junction temperature range and Storage temperature range		Тл,Тѕтс	-55 to + 150	°C

NOTES:

- 1. Mounted on an FR4 PCB, single-sided copper, with 10cm*10cm*0.5mm copper pad area.
- 2. Mounted on an FR4 PCB, single-sided copper, mini pad.





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

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	VBR	I R=0.5mA	T _A =25°C	60	-	-	٧
Instantaneous forward voltage	VF	I F=1A I F=5A I F=15A	Ta=25°C	- - -	0.29 0.38 -	- - 0.56	V
		I F=1A I F=5A I F=15A	TA=125°C	- - -	0.19 0.31 0.48	- - -	V
Reverse current	l R	VR=42V	T _A =25°C	-	40	-	μА
		VR=60V	T _A =25°C T _A =125°C	-	- 20	320	μA mA

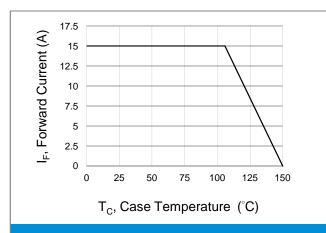


Fig.1 Forward Current Derating Curve

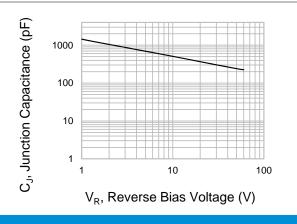
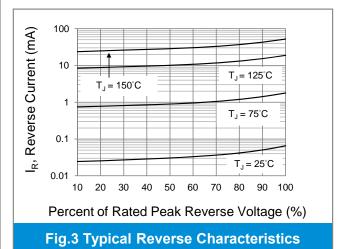
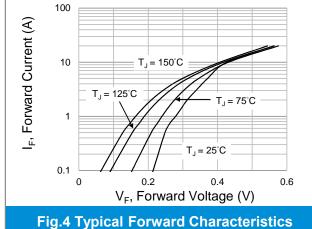


Fig.2 Typical Junction Capacitance

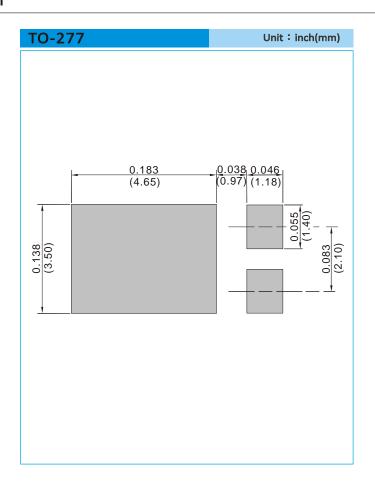








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 5K per 13" plastic Reel





Part No_packing code_Version

SVM1560U_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 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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