

SVM1560U

EXTREME LOW VF SCHOTTKY RECTIFIER

VOLTAGE 60 Volts **CURRENT** 15 Amperes

TO-277

Unit : inch(mm)

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)

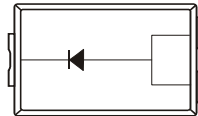
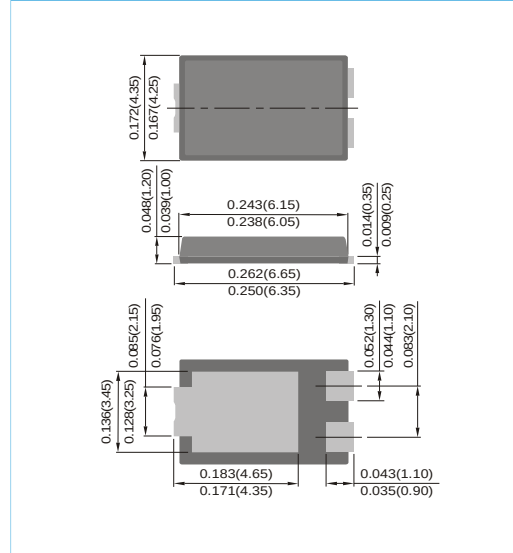
MECHANICAL DATA

Case : TO-277, Plastic

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

Weight : 0.0037 ounces, 0.1073 grams

Marking : SVM1560U



MAXIMUM RATINGS(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)}	15	A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	300	A
Typical Junction Capacitance V _R =4V, 1MHz	C _J	850	pF
Typical Thermal Resistance ,Junction to Ambient Junction to Case	R _{θJA} R _{θJC}	110 6	°C/W
Operating junction temperature range and Storage temperature range	T _J ,T _{STG}	-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.

SVM1560U

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V_{BR}	$I_R=0.5\text{mA}$ $T_A=25^\circ\text{C}$	60	-	-	V
Instantaneous forward voltage	V_F	$I_F=1\text{A}$ $T_A=25^\circ\text{C}$	-	0.29	-	V
		$I_F=5\text{A}$ $T_A=25^\circ\text{C}$	-	0.38	-	V
		$I_F=15\text{A}$ $T_A=25^\circ\text{C}$	-	-	0.56	V
		$I_F=1\text{A}$ $T_A=125^\circ\text{C}$	-	0.19	-	V
Reverse current	I_R	$V_R=42\text{V}$ $T_A=25^\circ\text{C}$	-	40	-	μA
		$V_R=60\text{V}$ $T_A=25^\circ\text{C}$	-	-	320	μA
		$V_R=60\text{V}$ $T_A=125^\circ\text{C}$	-	20	-	μA
			-	-	-	mA

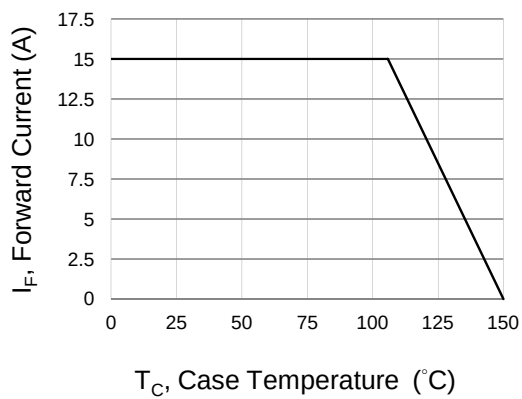


Fig.1 Forward Current Derating Curve

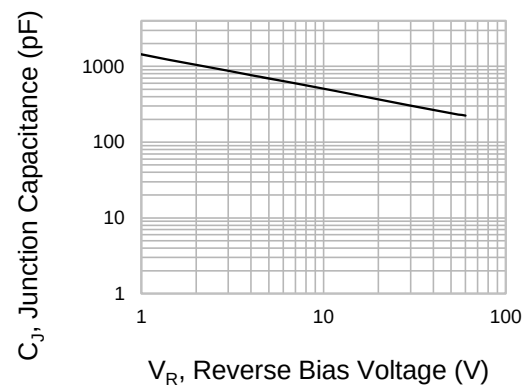


Fig.2 Typical Junction Capacitance

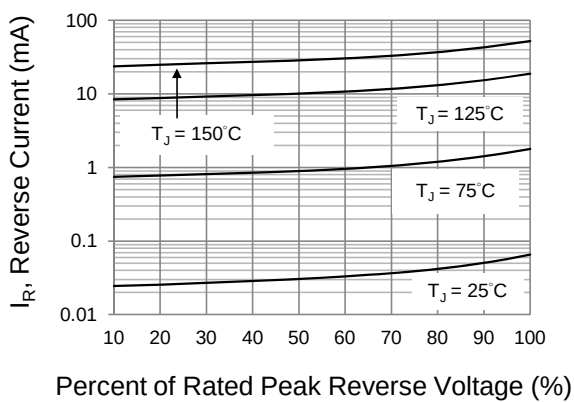


Fig.3 Typical Reverse Characteristics

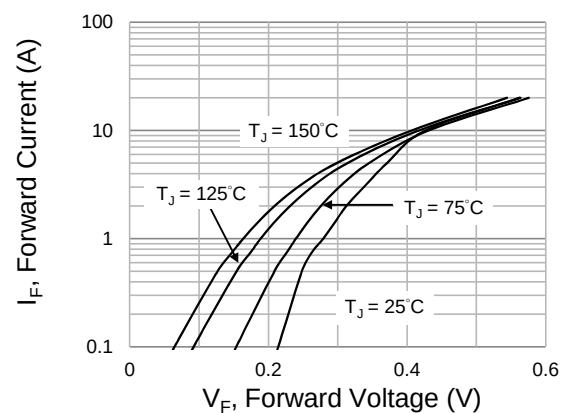


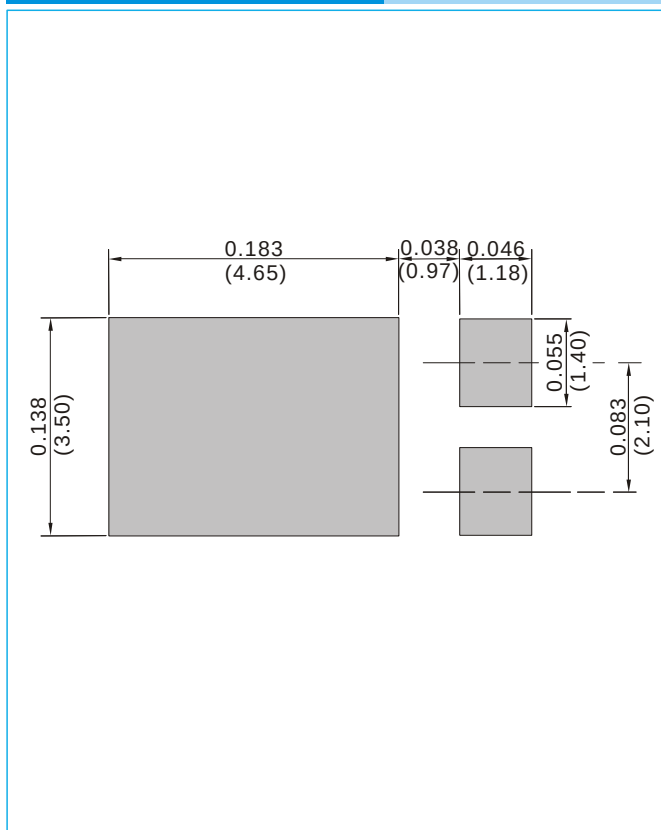
Fig.4 Typical Forward Characteristics

SVM1560U

MOUNTING PAD LAYOUT

TO-277

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 5K per 13" plastic Reel

SVM1560U

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)	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			



SVM1560U

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.