

# SRM560VF

## ULTRA LOW VF SCHOTTKY

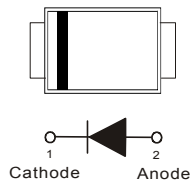
**VOLTAGE** 60 Volt **CURRENT** 5 Ampere

### FEATURES

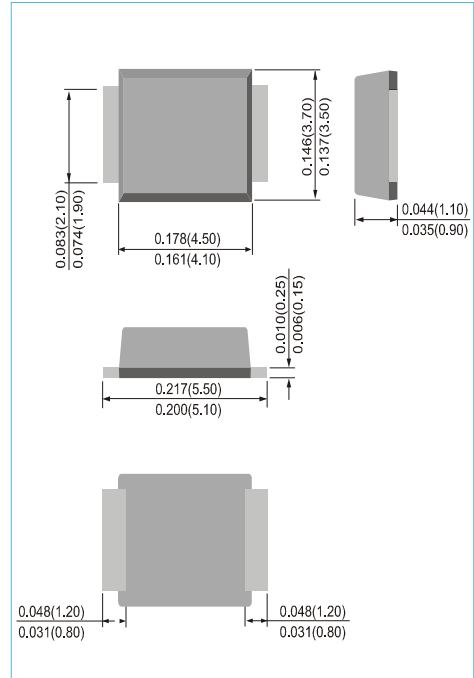
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Low power loss, high efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### MECHANICAL DATA

- Case: plastic molded
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity: Color band denotes cathode end



### SMBF Unit : inch(mm)



### MAXIMUM RATINGS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	60	V
Maximum rms voltage	V <sub>RMS</sub>	42	V
Maximum dc blocking voltage	V <sub>R</sub>	60	V
Maximum average forward rectified current	I <sub>F(AV)</sub>	5	A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	120	A
Typical thermal resistance (Note 1)	R <sub>θJA</sub>	135	°C/W
(Note 2)	R <sub>θJL</sub>	15	
Typical junction capacitance (V <sub>R</sub> =4V, f=1MHz)	C <sub>J</sub>	300	pF
Operating junction temperature range	T <sub>J</sub>	-55 to + 150	°C
Storage temperature range	T <sub>STG</sub>	-55 to + 150	°C

NOTES:1.Mounted on a FR4 PCB, single-sided copper, mini pad.

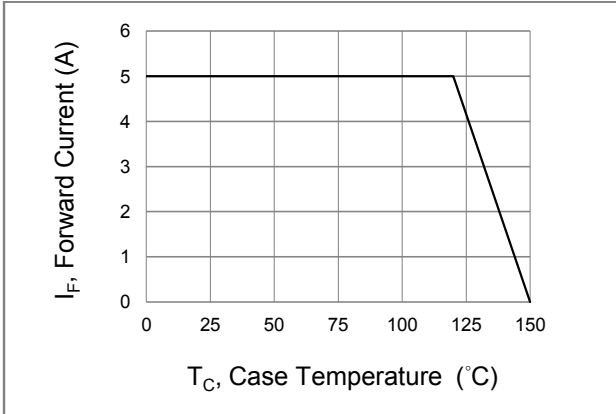
2.Mounted on a FR4 PCB, single-sided copper, with 10cm\*10cm copper pad area

# SRM560VF

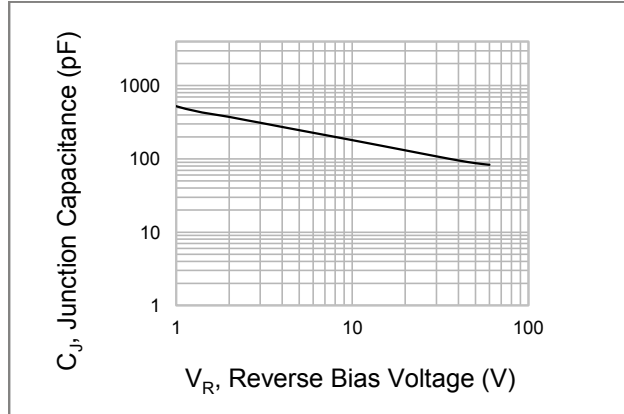
## ELECTRICAL CHARACTERISTICS(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	V <sub>BR</sub>	I <sub>R</sub> =0.5mA	60	-	-	V
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =1A	-	0.33	-	V
		I <sub>F</sub> =3A	-	0.41	-	
		I <sub>F</sub> =5A	-	0.47	0.52	
		T <sub>J</sub> =25°C		-	-	-
		I <sub>F</sub> =1A	-	0.25	-	V
		I <sub>F</sub> =3A	-	0.37	-	
Reverse current	I <sub>R</sub>	V <sub>R</sub> =42V	-	20	-	μA
		V <sub>R</sub> =60V	-	-	220	μA
		T <sub>J</sub> =25°C	-	8.5	-	mA
		T <sub>J</sub> =125°C	-	-	-	

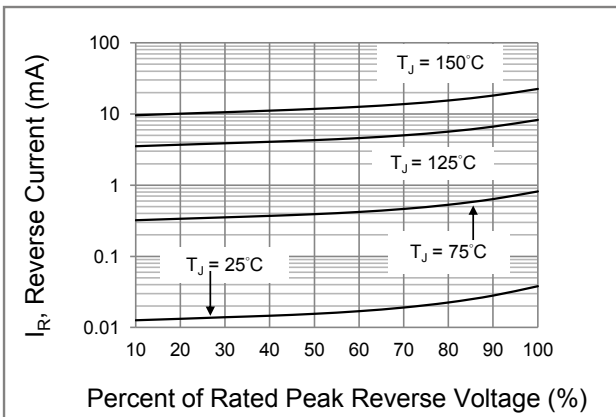
# SRM560VF



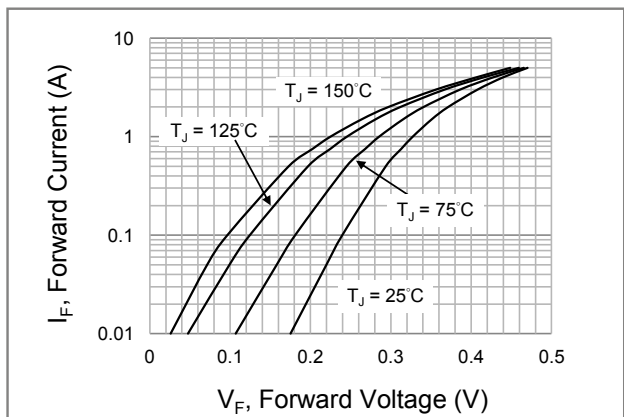
**Fig.1 Forward Current Derating Curve**



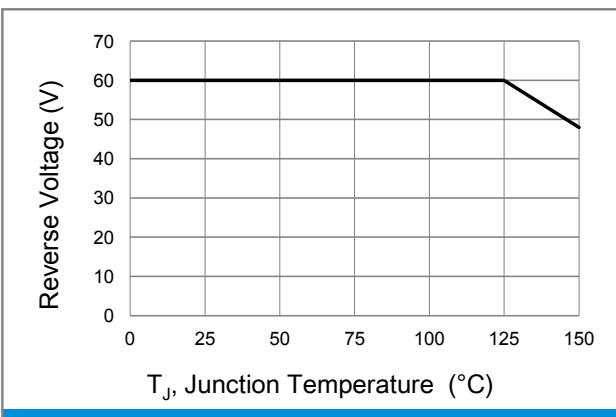
**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



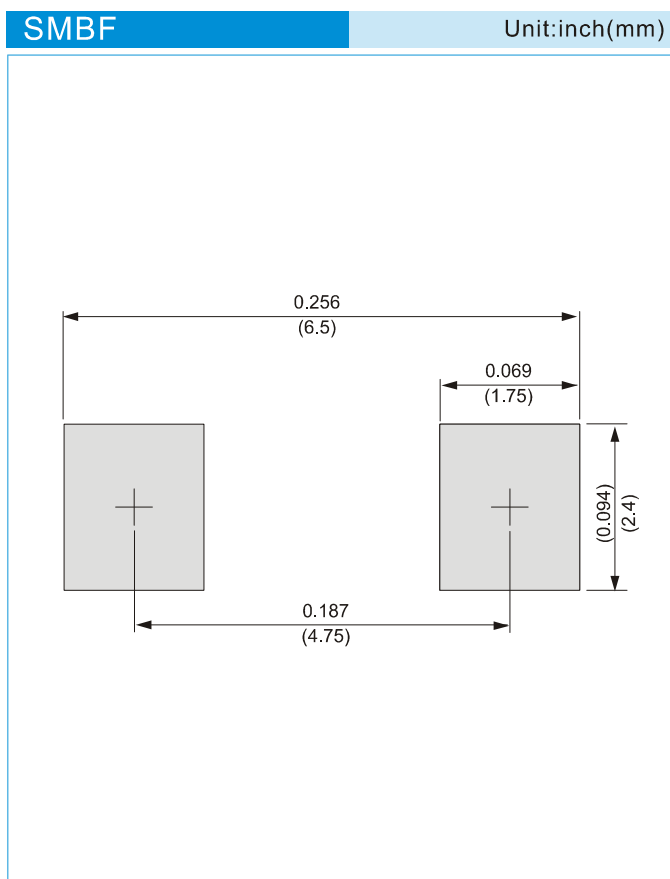
**Fig.4 Typical Forward Characteristics**



**Fig.5 Operating Temperature Derating Curve**

# SRM560VF

## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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

## SRM560VF

---

### 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.