



# SRM560VF

## ULTRA LOW VF SCHOTTKY

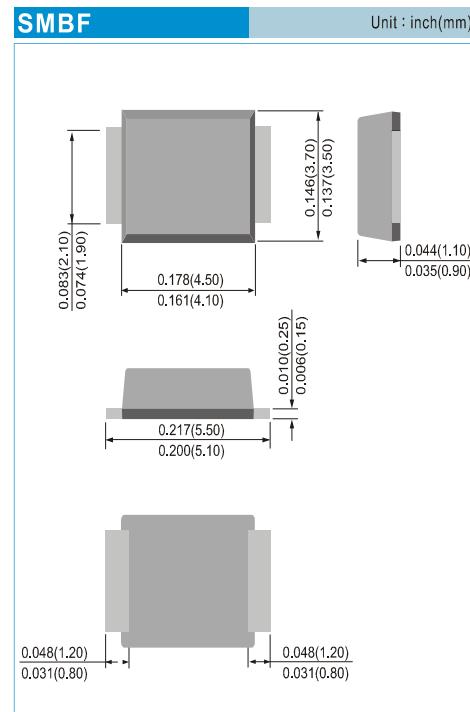
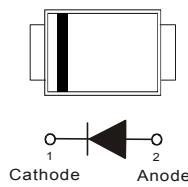
**VOLTAGE** 60 Volt **CURRENT** 5 Ampere

### 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



### 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) (Note 2)	R <sub>θJA</sub> R <sub>θJL</sub>	135 15	°C/W
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



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## ELECTRICAL CHARACTERISTICS( $T_A=25^\circ C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage	$V_{BR}$	$I_R=0.5mA$	60	-	-	V
Instantaneous forward voltage	$V_F$	$I_F=1A$ $I_F=3A$ $I_F=5A$	-	0.33	-	V
			-	0.41	-	
			-	0.47	0.52	
		$I_F=1A$ $I_F=3A$	-	0.25	-	V
Reverse current	$I_R$	$V_R=42V$	-	20	-	$\mu A$
		$V_R=60V$	-	-	220	$\mu A$ mA
				8.5	-	



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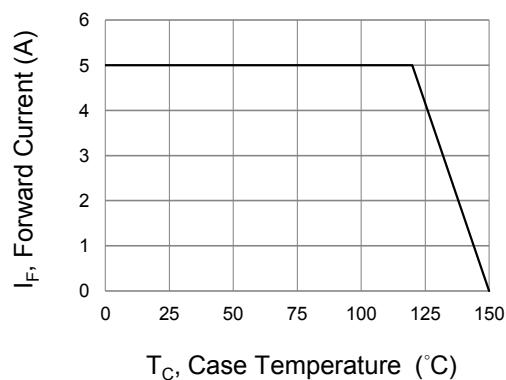


Fig.1 Forward Current Derating Curve

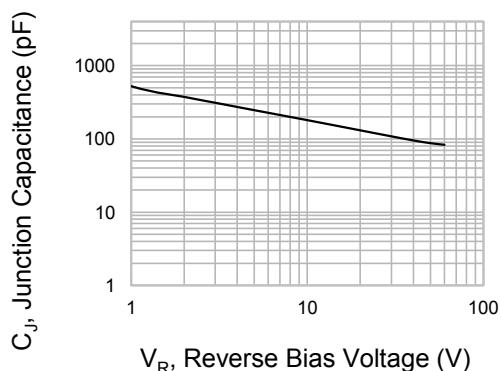


Fig.2 Typical Junction Capacitance

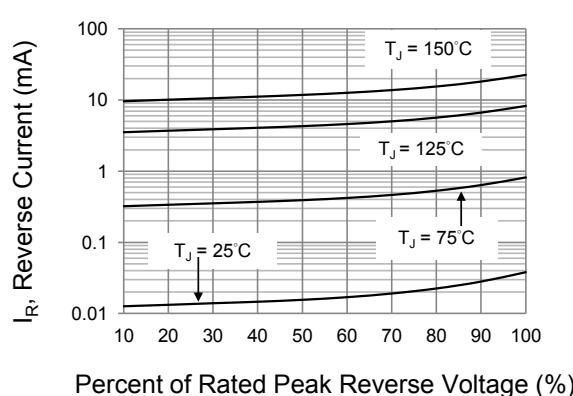


Fig.3 Typical Reverse Characteristics

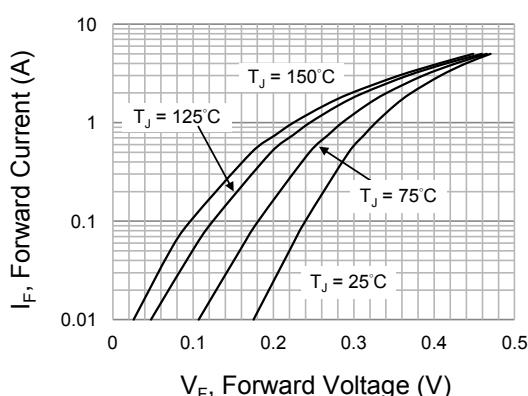


Fig.4 Typical Forward Characteristics

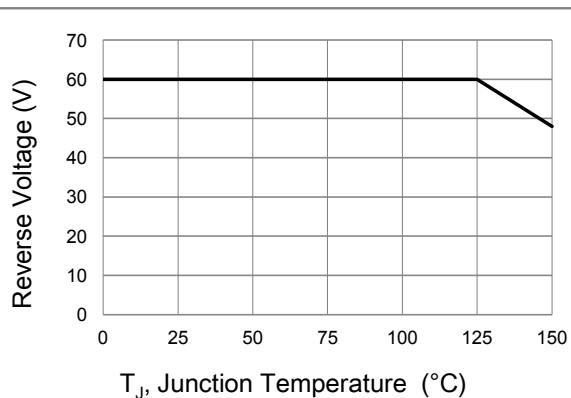
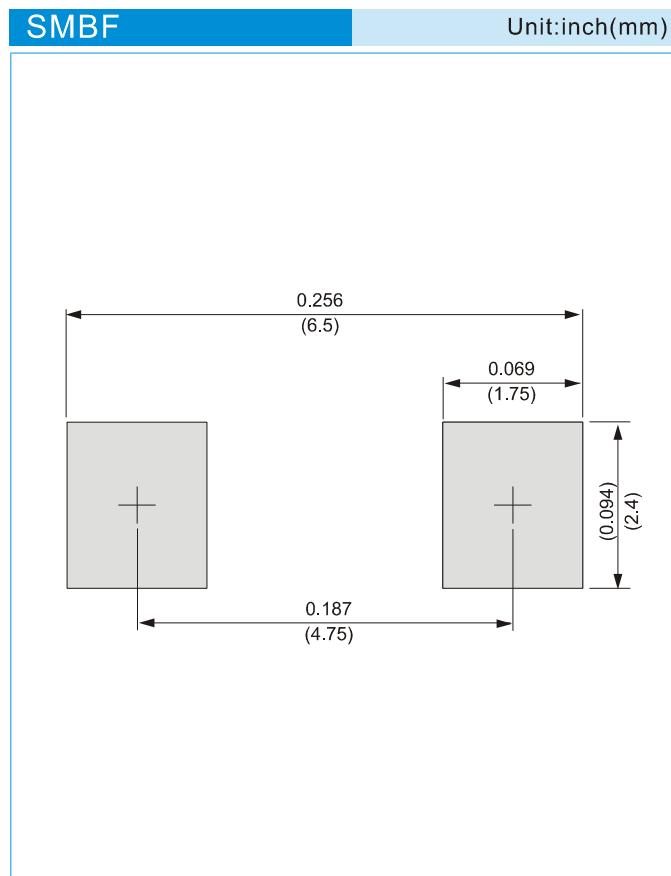


Fig.5 Operating Temperature Derating Curve



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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



## SRM560VF

### Part No\_packing code\_Version

SRM560VF\_R2\_00001

For example :

RB500V-40\_R2\_00001



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)	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			



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