

SRM54AVF LOW VF SCHOTTKY SMBF Unit : inch(mm) VOLTAGE 45 Volts CURRENT **5** Amperes **FEATURES** • Plastic package has Underwriters Laboratory 0.146(3.70) 0 137(3 50) Flammability Classification 94V-O • For surface mounted applications • Ultra thin profile package for space constrained utilization 0.083(2.10) 0.044(1.10) • Package suitable for automated handling 0.178(4.50) 0.161(4.10) • Metal to silicon rectifier. majority carrier conduction · Low power loss, high efficiency 15) • High surge capacity • Lead free in comply with EU RoHS 2011/65/EU directives. • Green molding compound as per IEC61249 Std. . (Halogen Free) 0.217(5.50) 0.200(5.10) **MECHANICAL DATA** · Case: plastic molded • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 • Approx. Weight: 0.0018 ounces, 0.05 grams 0.048(1.20) 0.031(0.80) 0.048(1.20) • Polarity : Color band denotes cathode end Cathode

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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		Vrrm	45	V
Maximum rms voltage		Vrms	32	V
Maximum dc blocking voltage		VR	45	V
Maximum average forward rectified current		I F(AV)	5	А
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I FSM	150	А
Typical thermal resistance	(Note 1) (Note 2)	R⊕jl R⊕ja	27 135	°C/W
Typical junction capacitance (VR=4V, f=1MHz)		CJ	500	pF
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Anode

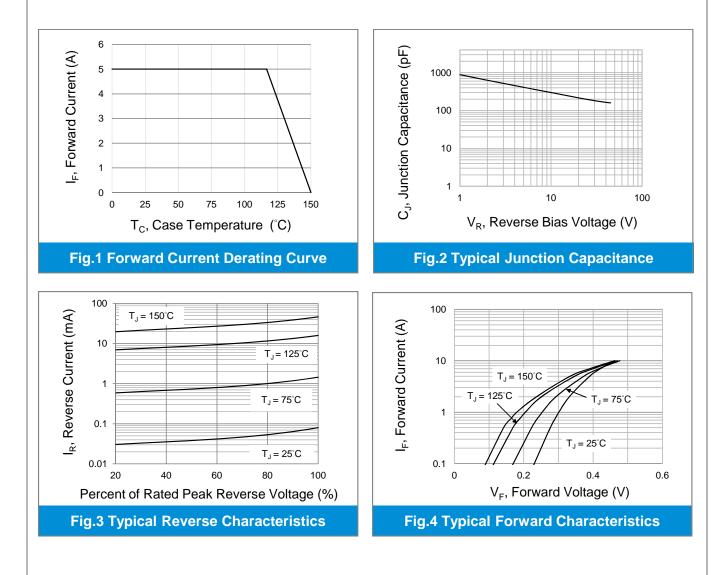
NOTES : 1.Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area. 2.Mounted on an FR4 PCB, single-sided copper, mini pad.



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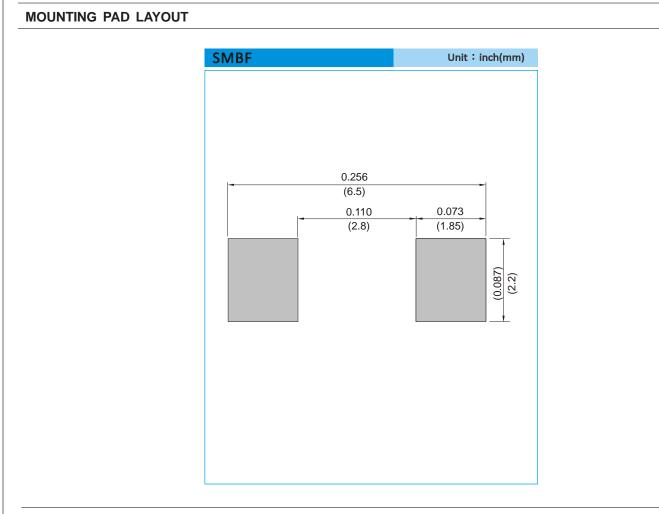
ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage	Vbr	I R=0.5mA		45	-	-	V
Instantaneous forward voltage	VF	IF=1A IF=5A	Tj=25°C	-	0.3 0.39	- 0.43	V
		I F=1A I F=5A	TJ=125°C	-	0.21 0.35	-	V
Reverse current	l r	Vr=36V		-	70	-	μA
		VR=45V	TJ=25°C TJ=125°C	-	- 19	210 -	μA mA





SRM54AVF



ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel





SRM54AVF

Part No_packing code_Version

SRM54AVF_R2_00001

For example :

RB500V-40_R2_00001



- 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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