

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		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 1) (Note 2)	Rejl Rejc Reja	27 12 135	°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

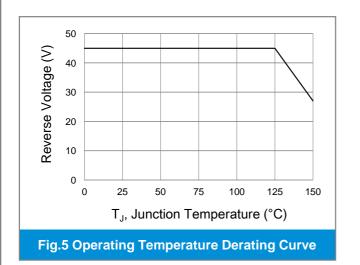
NOTES : 1.Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area. 2.Mounted on a FR4 PCB, single-sided copper, mini pad.



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

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





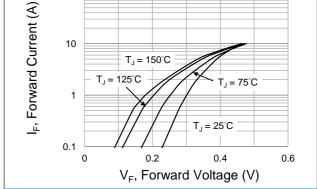


Fig.4 Typical Forward Characteristics

10

V_R, Reverse Bias Voltage (V)

Fig.2 Typical Junction Capacitance

100

1000

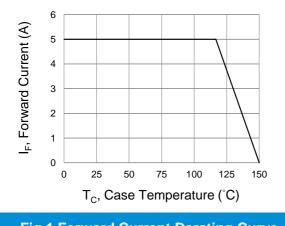
100

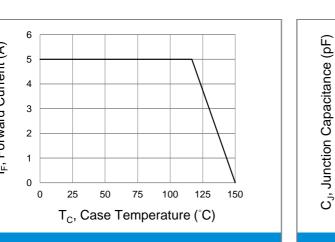
10

1

100







T_J = 125°C

T_J = 75°C

T_{.1} = 25°C

100

80

PAN SEMI CONDUCTOR

SRM54AVF

100

10

1

0.1

0.01

20

I_R, Reverse Current (mA)

T_J = 150°C

40

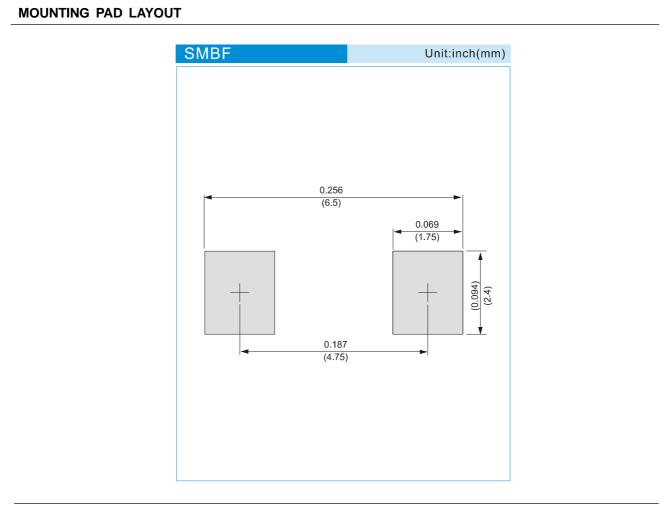
60

Percent of Rated Peak Reverse Voltage (%)

Fig.3 Typical Reverse Characteristics







ORDER INFORMATION

Packing information

T/R - 5K per 13" plastic Reel

Part No_packing code_Version

SRM54AVF_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
 - SEMI CONDUCTOR

	vv				
					(
•					

	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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