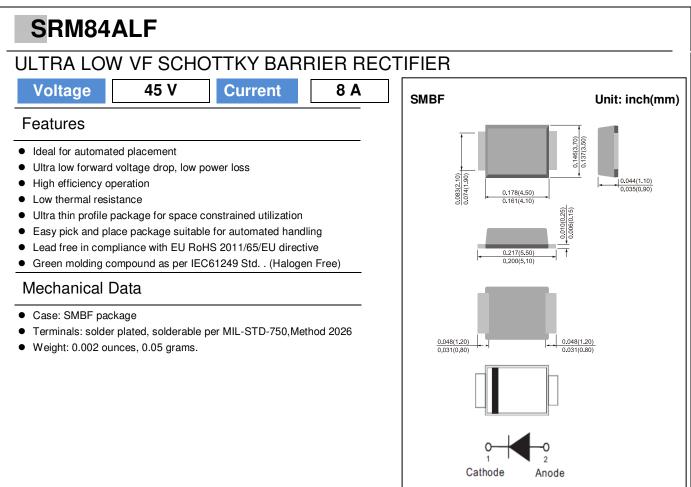
PAN	JIT
	SEMI CONDUCTOR



Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	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	lF(AV)	8	Α		
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	150	А	
Typical junction capacitance (VR=4V, f=1MHz)		Сл	550	pF	
	(Note 1)	$R_{ extsf{ heta}JC}$	27	°C/W	
Typical thermal resistance	(Note 2)	$R_{ extsf{ heta}JA}$	135		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

Note : 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.



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Electrical Characteristics (T_A=25°C unless otherwise noted)

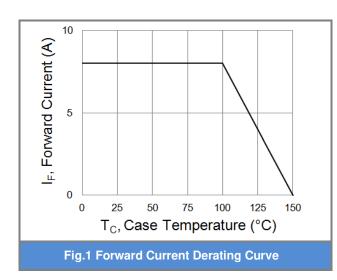
PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	TJ=25°C	45	-	-	V
Instantaneous forward voltage		I _F =1A	Tj=25°C	-	0.3	-	
	V _F	I _F =5A		-	0.4	-	V
		I _F =8A		-	-	0.49	
		I _F =1A	TJ=125°C	-	0.21	-	V
		I _F =5A		-	0.35	-	
Reverse current I _R	V _R =36V	Tj=25°C	-	70	-	μA	
	IR	V _R =45V	TJ=25°C	-	-	210	μA
			TJ=125°C	-	19	-	mA



$\langle \hat{\gamma} \rangle$

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TYPICAL CHARACTERISTIC CURVES



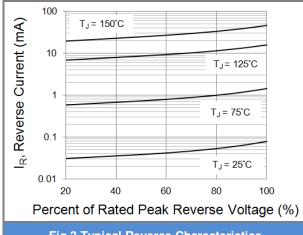
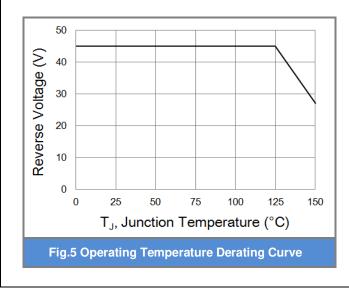
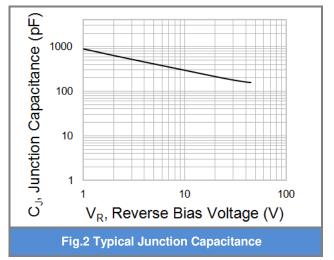


Fig.3 Typical Reverse Characteristics





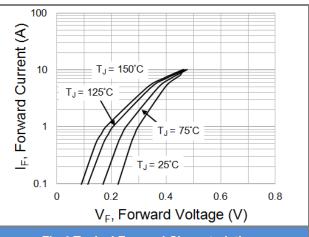


Fig.4 Typical Forward Characteristics



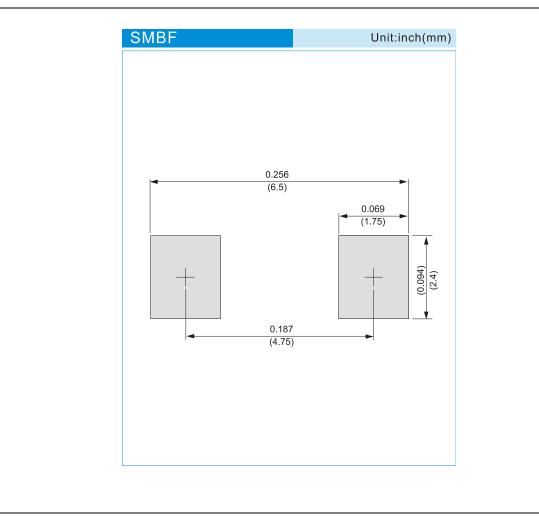


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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SRM84ALF_R1_00001	SMBF	1.5K pcs / 7" reel	SRM84ALF	Halogen free
SRM84ALF_R2_00001	SMBF	5K pcs / 13" reel	SRM84ALF	Halogen free

Mounting Pad Layout







SRM84ALF

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