



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage

45 V

Current

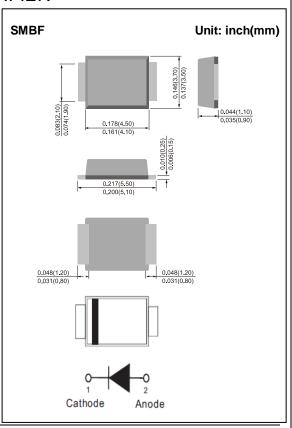
8 A

Features

- Ideal for automated placement
- Ultra low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Ultra thin profile package for space constrained utilization
- Easy pick and place package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

Mechanical Data

- Case: SMBF package
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Weight: 0.002 ounces, 0.05 grams.



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		IF(AV)	8	Α	
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		IFSM	150	А	
Typical junction capacitance (V _R =4V, f=1MHz)		Сл	550	pF	
Typical thermal resistance	(Note 1)	$R_{ heta JC}$	27	°C/W	
	(Note 2)	$R_{\theta JA}$	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.





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	T _J =25°C	45	-	-	V
Instantaneous forward voltage	V _F	I _F =1A	TJ=25°C	-	0.3	-	V
		I _F =5A		-	0.4	-	
		I _F =8A		-	-	0.49	
		I _F =1A	T _J =125°C	-	0.21	-	V
		I _F =5A		-	0.35	-	
Reverse current	I _R	V _R =36V	T _J =25°C	-	70	-	μА
		V _R =45V	T _J =25°C	-	-	210	μА
			T _J =125°C	-	19	-	mA





TYPICAL CHARACTERISTIC CURVES

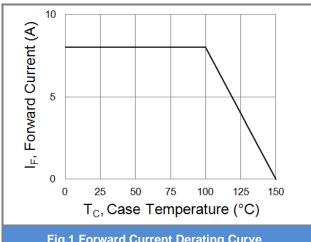


Fig.1 Forward Current Derating Curve

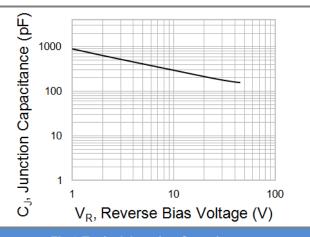


Fig.2 Typical Junction Capacitance

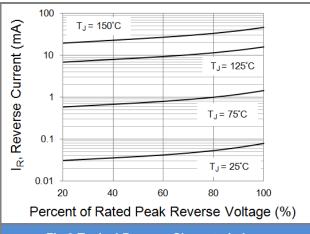
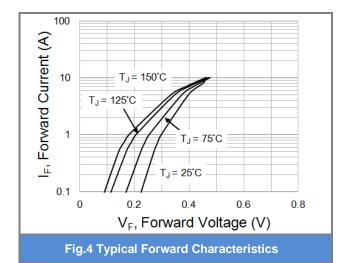
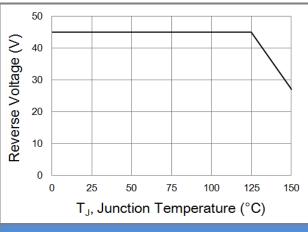


Fig.3 Typical Reverse Characteristics





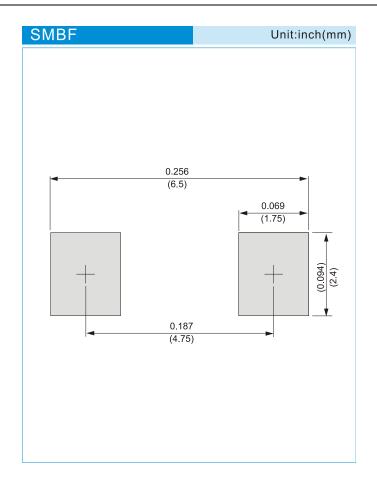




Part No Packing Code Version

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







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