SURFACE MOUNT FAST RECOVERY RECTIFIERS

Forward Current-5.0A

Reverse Voltage-50V to 1000V

FEATURES

- ♦ For surface mount applications
- ♦ Glass passivated chip junction
- **♦** Low profile package
- **♦** Fast reverse recovery time
- ◆ Lead free in comply with EU RoHS2011/65/EU directives

MECHANICAL DATA

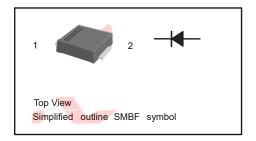
◆ Case: SMBF molded plastic body

◆ Terminals: Solderable per MIL-STD-750, Method 2026

♦ Weight: Approximated 0.057 grams

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

PARAMETER	SYMBOL	RS5ABF -AT	RS5BBF -AT	RS5DBF -AT	RS5GBF -AT	RS5JBF -AT	RS5KBF -AT	RS5MBF -AT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc=100°C	I _{F(AV)}	5.0					Α		
Peak Forward Surge Current (Note1)	I _{FSM}	125					Α		
Maximum Forward Voltage at 5.0 A	V _F	1.3					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A =25°C T _A =125°C	lR	10 150					uA		
Typical Junction Capacitance at V _R =4V, f=1MHz	Сл	45					pF		
Maximum Reverse Recovery Time (Note2)	T _{rr}	150 250 500			00	nS			
Typical Thermal Resistance (Note3)	R _{0JA} R _{0JC}	40 12					°C/W		
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C		

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

2. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.

3. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Dated: 06/2016

Rev:1.0

RS5ABF-AT THRU RS5MBF-AT

RATINGS AND CHARACTERISTIC CURVES

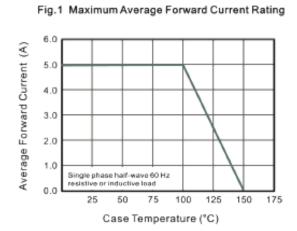


Fig.2 Typical Reverse Characteristics

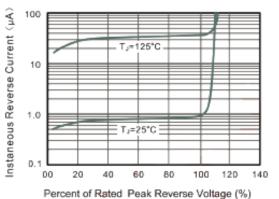


Fig.3 Typical Instaneous Forward Characteristics

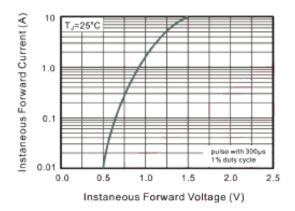


Fig.4 Typical Junction Capacitance

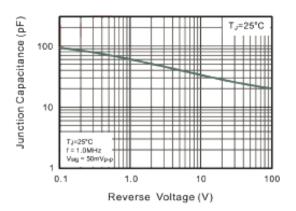
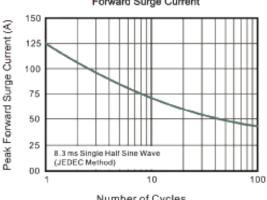


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Number of Cycles

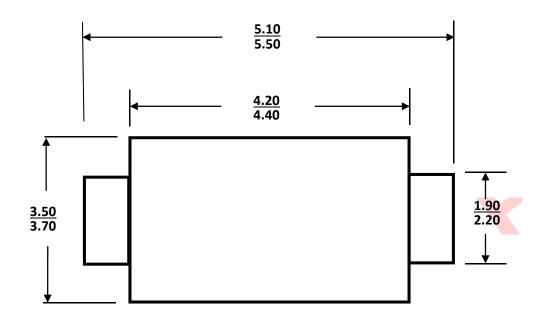
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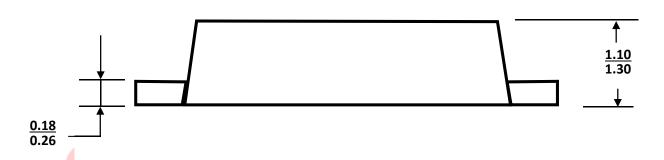
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RS5ABF-AT THRU RS5MBF-AT

PACKAGE OUTLINE

SMBF





Dimensions in milimeters

ORDERING INFORMATION

Device	Package	Shipping
RS5ABF-AT thru RS5MBF-AT	SMBF	5,000/ Tape & Reel (13 inches)

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Rev:1.0