# **RS2ABF THRU RS2MBF**

## **Surface Mount Fast Recovery Rectifiers**

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

#### **Features**

- · Glass Passivated Chip Juntion
- · For surface mounted applications
- · Low profile package
- Fast reverse recovery time

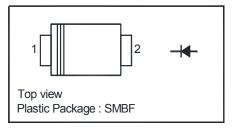
### **Mechanical Data**

· Case: SMBF

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

#### **PINNING**

PIN	DESCRIPTION
1	Cathode
2	Anode



### **Absolute Maximum Ratings and Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified.

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

Parameter		RS2ABF	RS2BBF	RS2DBF	RS2GBF	RS2JBF	RS2KBF	RS2MBF	Units
Maximum Repetitive Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T <sub>C</sub> = 125°C		2						Α	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		50						Α	
Maximum Forward Voltage at 2 A		1.3					٧		
Maximum Reverse Current $T_J = 25^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_J = 125^{\circ}\text{C}$	I <sub>R</sub>	5 100				μA			
Typical Junction Capacitance at $V_R = 4 \text{ V}$ , $f = 1 \text{ MHz}$	C <sub>j</sub>	28			pF				
Maximum Reverse Recovery Time at $I_F = 0.5 \text{ A}$ , $I_R = 1 \text{ A}$ , $I_{rr} = 0.25 \text{ A}$	t <sub>rr</sub>		1	50		250	50	00	ns
Typical Thermal Resistance 1)	$R_{ heta JA} \ R_{ heta JC}$				°C/W				
Operating Junction and Storage Temperature Range		- 55 to + 150						°C	

<sup>&</sup>lt;sup>1)</sup>P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



## **RS2ABF THRU RS2MBF**

#### **Electrical Characteristics Curves**

Fig.1 Forward Current Derating Curve

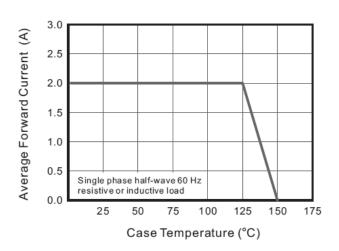


Fig.3 Typical Instaneous Forward Characteristics

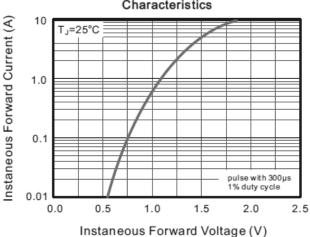


Fig. 5 Maximum Non-Repetitive Peak

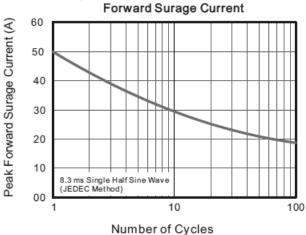
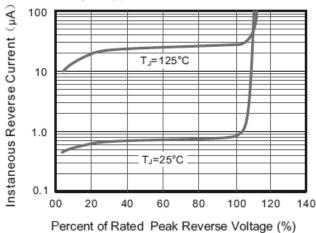
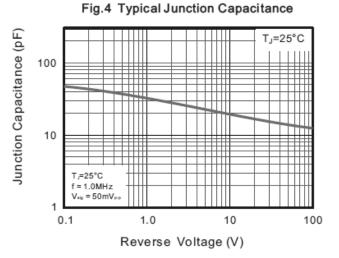


Fig.2 Typical Reverse Characteristics

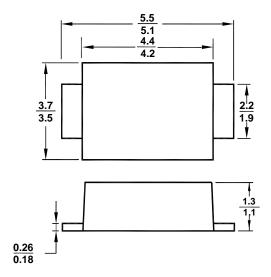




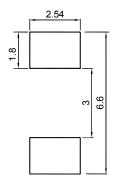


# Package Outline Dimensions (Units: mm)

**SMBF** 



# **Recommended Soldering Footprint**



## **Marking information**

" R2\*B " = Part No.

Туре	Marking	Type	Marking	Type	Marking	Type	Marking
RS2ABF	R2AB	RS2BBF	R2BB	RS2DBF	R2DB	RS2GBF	R2GB
RS2JBF	R2JB	RS2KBF	R2KB	RS2MBF	R2MB		

" III " = Cathode line Font type: Arial



