

# RS3ABF THRU RS3MBF

## **Surface Mount Fast Recovery Rectifiers**

Reverse Voltage - 50 to 1000 V Forward Current - 3 A

#### **FEATURES**

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

### **MECHANICAL DATA**

• Case: SMBF

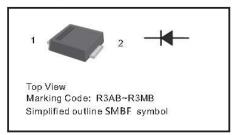
• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 57mg / 0.002oz

### **Maximum Ratings and Electrical characteristics**

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	RS3ABF	RS3BBF	RS3DBF	RS3GBF	RS3JBF	RS3KBF	RS3MBF	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V∞	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I <sub>F(AV)</sub>	3							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	100							Α
Maximum Instantaneous Forward Voltage at 3 A	V <sub>F</sub>	1.3							V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I <sub>R</sub>	5 150						μA	
Maximum Reverse Recovery Time 1>	t,,	150 250					ทธ		
Typical Junction Capacitance 2>	Cj	60							рF
Typical Thermal Resistance 3>	R <sub>eJA</sub>	55							°C/W
Operating and Storage Temperature Range	Tj, Tsig	-55 ~ +150							°C

- 1) Measured with  $I_F = 0.5$  A,  $I_R = 1$  A,  $I_{rr} = 0.25$  A 2) Measured at 1MHz and applied reverse voltage of 4V D.C
- 3 ) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

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Fig.1 Forward Current Derating Curve

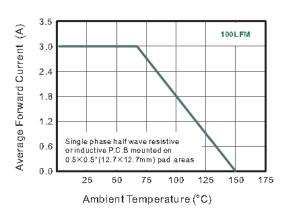


Fig.3 Typical Instaneous Forward Characteristics

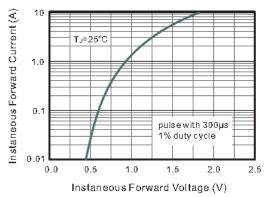


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

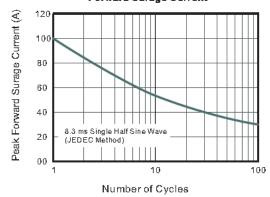


Fig.2 Typical Reverse Characteristics

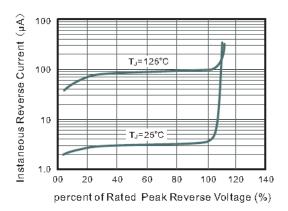
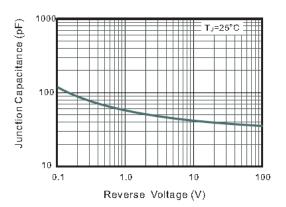


Fig.4 Typical Junction Capacitance



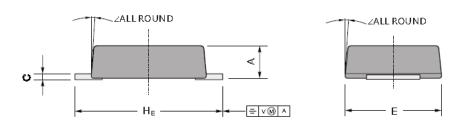


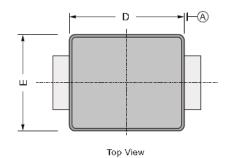
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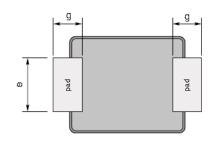
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

#### **SMBF**



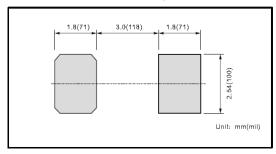




Bottom View

UNIT		Α	С	D	Е	H <sub>E</sub>	е	g	2
mm	max	1.3	0.26	4.4	3.7	5.5	2.2	1.0	9°
	min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	
mil	max	51	10	173	146	216	86	40	Э
	min	43	7	165	138	200	75	40	

### The recommended mounting pad size



#### Marking

Type number	Marking code				
RS3ABF	R3AB				
RS3BBF	R3BB				
RS3DBF	R3DB				
RS3GBF	R3GB				
RS3JBF	R3JB				
RS3KBF	R3KB				
RS3MBF	R3MB				

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# 单击下面可查看定价,库存,交付和生命周期等信息

>>SHIKUES(时科)