

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

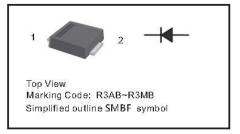
• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 57mg / 0.002oz

Maximum Ratings and Electrical characteristics

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Ratings at 25° 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 _{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∞	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	3							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	100							А
Maximum Instantaneous Forward Voltage at 3 A	V _F	1.3							٧
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I _R	5 150							μА
Maximum Reverse Recovery Time 1>	t,,	150 250					ทธ		
Typical Junction Capacitance 2>	Cj	60							рF
Typical Thermal Resistance 3>	R _{g,IA}	55							°C/W
Operating and Storage Temperature Range	Tj, Ts1g	-55~+150							ů

- 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.

SHIKE MAKE CONSCIOUS PRODUCT

Conscious Products Begin With Conscious People





RS3ABF THRU RS3MBF

Fig.1 Forward Current Derating Curve

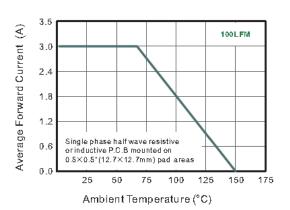


Fig.3 Typical Instaneous Forward Characteristics

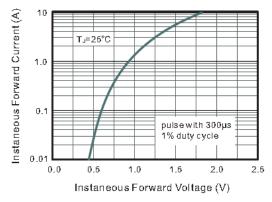


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

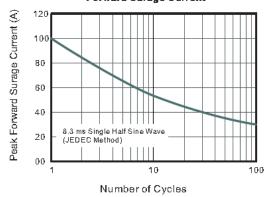


Fig.2 Typical Reverse Characteristics

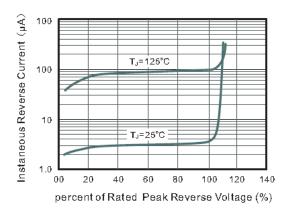
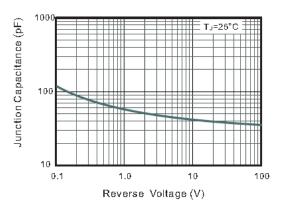


Fig.4 Typical Junction Capacitance



SHIKE MAKE CONSCIOUS PRODUCT
CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE



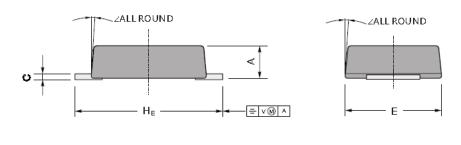


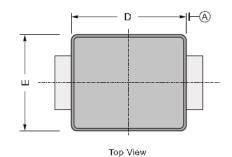
RS3ABF THRU RS3MBF

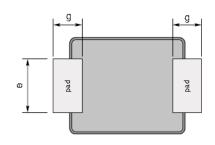
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMBF



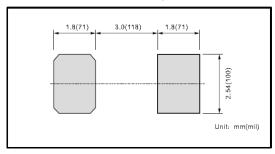




Bottom View

UNIT		Α	С	D	Е	H _E	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

SHIKE MAKE CONSCIOUS PRODUCT

Conscious Products Begin With Conscious People

