RS2ABF THRU RS2MBF



Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 2 A

SMBF



FEATURES

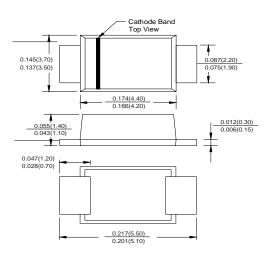
- · For surface mounted applications
- · Low profile package
- · Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

· Case: SMBF

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

• Approx. Weight: 57mg / 0.002oz



Dimensions in inches and (millimeters)

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 derate by 20 %.

Parameter	Symbols	RS2ABF	RS2BBF	RS2DBF	RS2GBF	RS2JBF	RS2KBF	RS2MBF	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 _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.3							٧
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 100							μA
Maximum Reverse Recovery Time 1)	t _{rr}	150 250 500				00	ns		
Typical Junction Capacitance 2)	C _j	40							pF
Typical Thermal Resistance 3)	$R_{ extstyle extstyle$	65							°C/W
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150							°C

- 1) Measured with I $_{\text{F}}$ = 0.5 A, I $_{\text{R}}$ = 1 A, I $_{\text{rr}}$ = 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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Forward Current - 2 A



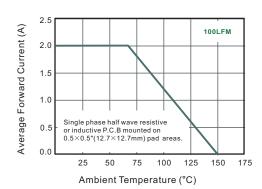


Fig.2 Typical Reverse Characteristics

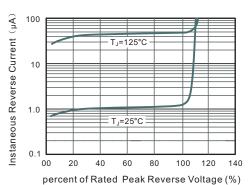


Fig.3 Typical Instaneous Forward Characteristics

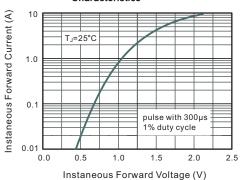


Fig.4 Typical Junction Capacitance

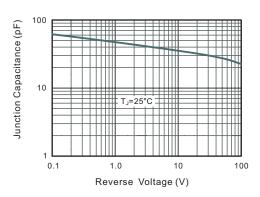


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

