

RS2ABF THRU RS2MBF SMBF

Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

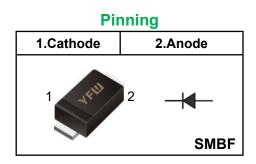
FEATURES

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



Marking Code					
RS2ABF	YFW R2AB				
RS2BBF	YFW R2BB				
RS2DBF	YFW R2DB				
RS2GBF	YFW R2GB				
RS2JBF	YFW R2JB				
RS2KBF	YFW R2KB				
RS2MBF	YFW R2MB				

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 %.

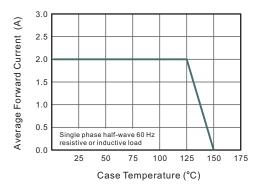
Parameter	Symbols	RS2ABF	RS2BBF	RS2DBF	RS2GBF	RS2JBF	RS2KBF	RS2MBF	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	v
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	v
Maximum Average Forward Rectified Current at $T_{\rm c}$ = 125 $^\circ\text{C}$	I _{F(AV)}	2					Α		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50					Α		
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.3					v		
Maximum DC Reverse Current $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltage $T_a=125 \ ^{\circ}C$	I _R	5 100					μA		
Typical Junction Capacitance at V _R =4V,f=1MHZ	Cj	28					pF		
Maximum Reverse Recovery Time (1)	Trr	150 250 500			00	nS			
Typical Thermal Resistance ⁽²⁾	R _{0JA} / R _{0JC}	60/18					°C/W		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150				°C			

(1) Measured with $I_{\text{F}}\text{=}0.5\text{A}, I_{\text{R}}\text{=}1\text{A}, I_{\text{n}}\text{=}0.25\text{A}$

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



Fig.1 Forward Current Derating Curve



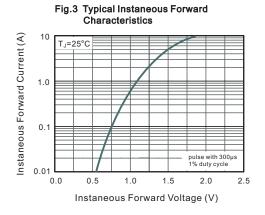


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

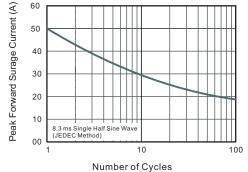


Fig.2 Typical Reverse Characteristics

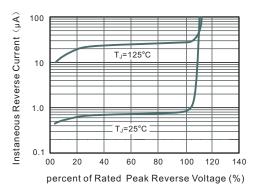
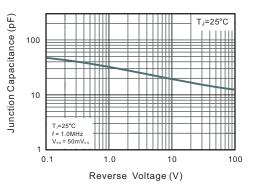


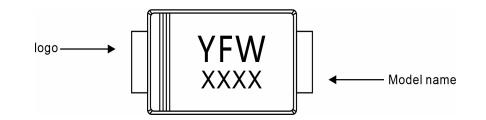
Fig.4 Typical Junction Capacitance





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Marking Diagram

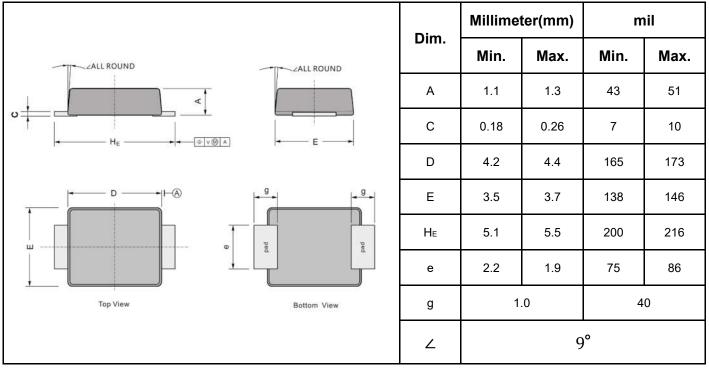


Ordering information

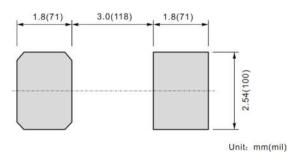
Package	Packing Description	Packing Quantity
SMBF	Tape/Reel,13"reel	5000PCS/Reel 50000PCS/Carton

Package Dimensions

SMBF



The recommended mounting pad size





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