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
- Hireliability application and automotive grade AEC-Q101 qualified

MECHANICAL DATA

- Case: SMB-C
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.091g / 0.003oz

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, derate current by 20%.

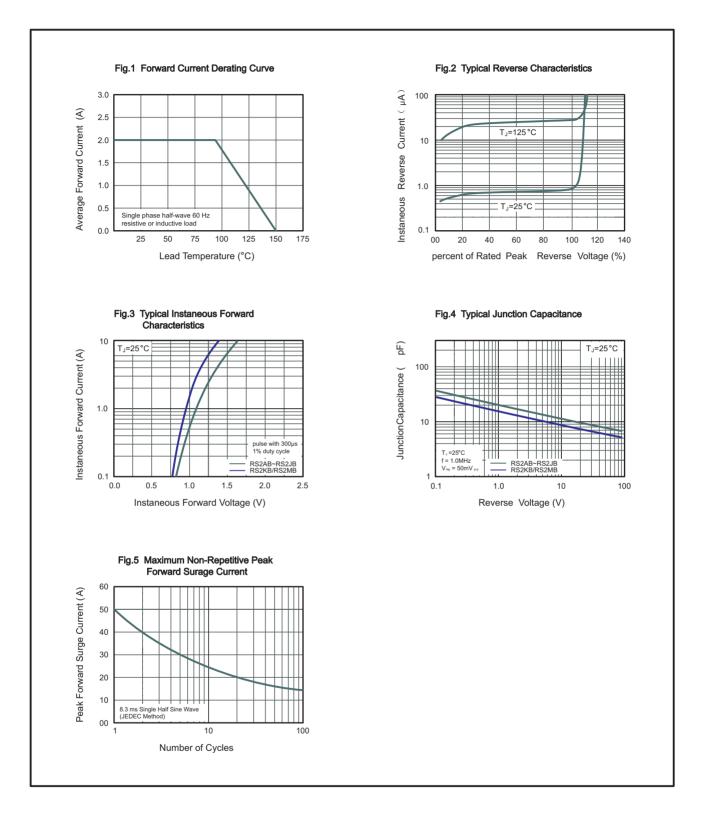
Parameter	Symbols	AT- RS2AB	AT- RS2BB	AT- RS2DB	AT- RS2GB	AT- RS2JB	AT- RS2KB	AT- RS2MB	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2				A			
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50				А			
Maximum Forward Voltage at 2 A	V _F	1.3				V			
Maximum DC Reverse CurrentTa = 25 °Cat Rated DC Blocking VoltageTa=125 °C					μA				
Typical Junction Capacitance at V_R =4V, f=1MHz	Cj	16 12			2	pF			
Maximum Reverse Recovery Time (1)	t _{rr}	150 250 500			00	ns			
Typical Thermal Resistance (2)	${\sf R}_{_{ extsf{ heta}JA}}$ ${\sf R}_{_{ heta JL}}$	30 13			°C/W				
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150				°C			

(1) Measured with $I_{\rm F}$ = 0.5 A, $I_{\rm R}$ = 1 A, $I_{\rm m}$ = 0.25 A.

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

PINNING						
PIN	DESCRIPTION					
1	Cathode					
2	Anode					
Top View Simplified outline SMB-C symbol						
Automotive Grade						

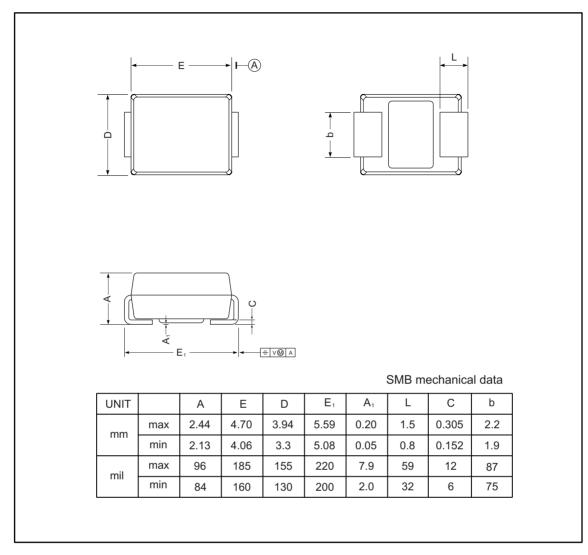
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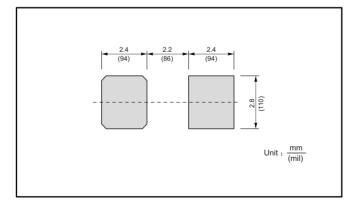
SMB-C

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



The recommended mounting pad size



Marking

Marking code
RS2A
RS2B
RS2D
RS2G
RS2J
RS2K
RS2M





文件履历表

序号	制/修订日期	生效日期	版次	修订内容	变更原因	制/修订人	备注
/1 5							
01	2023. 2. 9	2023. 2. 11	Rev 1.1	初版制定	/	郭金铮	



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