

Surface Mount Fast Recovery Rectifiers, Reverse Voltage 1000V, Forward Current:2.0A ,SMAF thin package.

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current at $T_c = 125^\circ\text{C}$	$I_F (AV)$	2.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	70	A
Typical Junction Capacitance at ¹⁾	C_j	35	pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	70	$^\circ\text{C/W}$
	$R_{\theta JC}$	20	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150	$^\circ\text{C}$

Note:

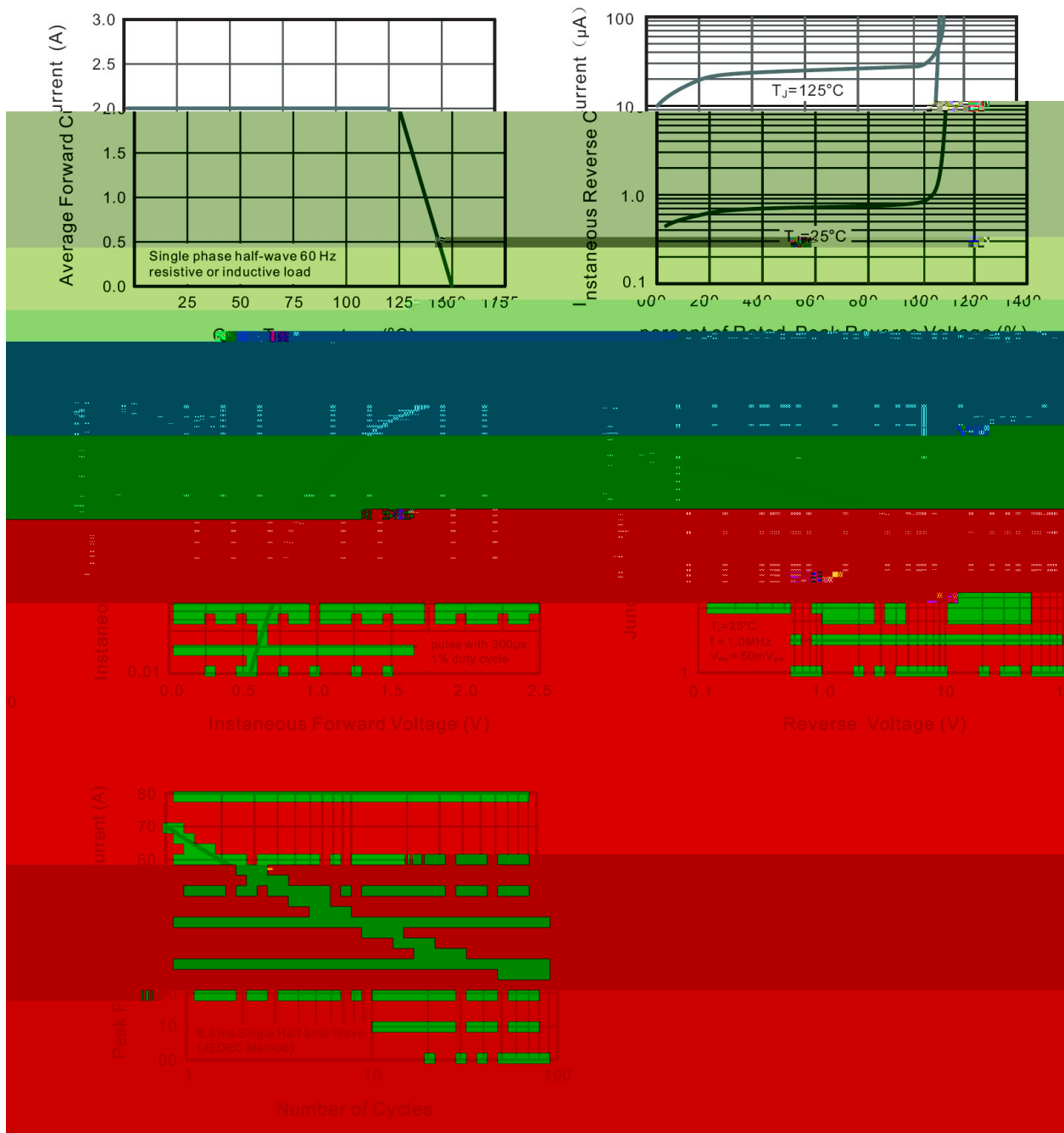
1) Measured at 1MHz and applied reverse voltage of 4V D.C.

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

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

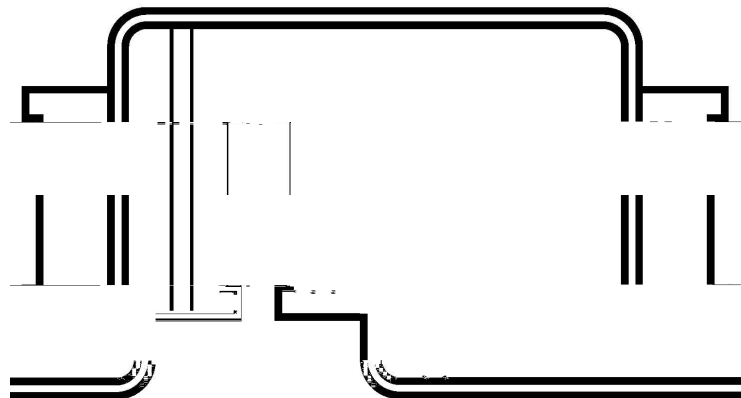
Parameter	Symbol	Test Conditions	数值 Rating	Unit
Maximum Instantaneous Forward Voltage	V_F	$I_F=2.0\text{A}$	1.3	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ\text{C}$	5.0	μA
		$T_a=125^\circ\text{C}$	100	μA
Maximum Reverse Recovery Time	t_{rr}	$I_F=0.5\text{A}$ $I_R=1.0\text{A}$ $I_{rr}=0.25\text{A}$	200	ns

/ Electrical Characteristic Curve



RS2MAF
Rev. F May.-2019

/ Marking Instructions

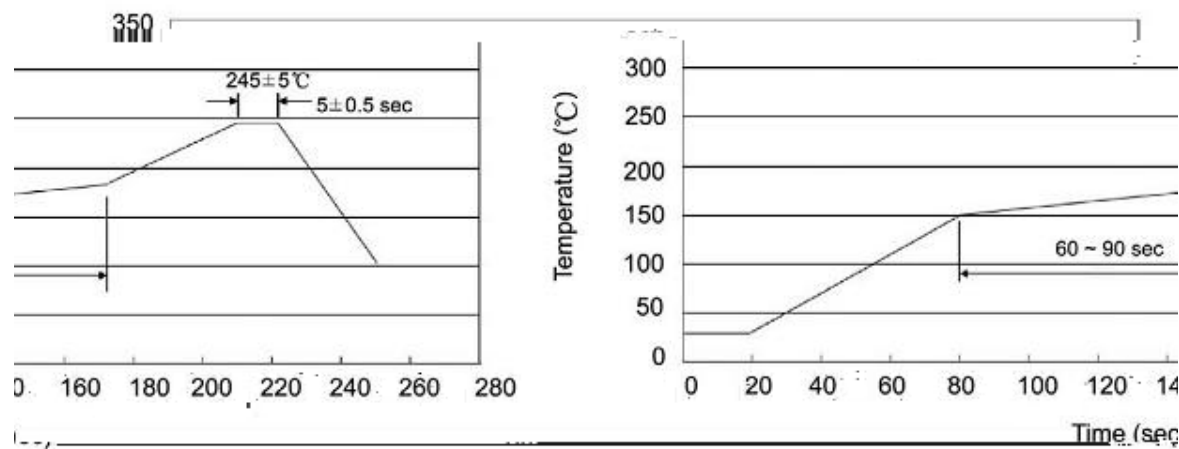


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Note:

Prod09T,AWÜB0p0ÀáááÜUPUPXXX47 Prod09%f,81X,86yBs%h D&xAVUC=0

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Note:

- 1

150 180

60 90sec;
- 2

245 5

5 0.5sec;
- 3

2 10 /sec.
- 1.Preheating:150~180

, Time:60~90sec.
- 2.Peak Temp.:245 5

, Duration:5 0.5sec.
3. Cooling Speed: 2~10

/sec.

/ Resistance to Soldering Heat Test Conditions

260 5 10 1 sec. Temp.:260 5 Time:10 1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SMAF	3000	5	15000	5	75000	7" ×11	185X180X105	390X385X205

/ Notices