

/ Descriptions

1000V 3.0A SMAF
Surface Mount Fast Recovery Rectifiers, Reverse Voltage 1000V, Forward Current:3.0A ,SMAF thin package.

/ Features

RoHS 2011/65/EU
Glass Passivated Chip Junction, Fast reverse recovery time, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications. Halogen free product.

/ Applications

General purpose.

/ Equivalent Circuit

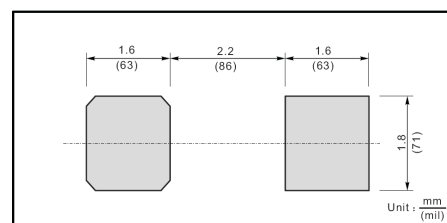


/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

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 $T_c = 100$	$I_{F\ AV}$	3.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	80	A
Typical Junction Capacitance at ¹	C_j	60	pF
Typical Thermal Resistance ²	$R_{\theta JA}$	50	/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150	

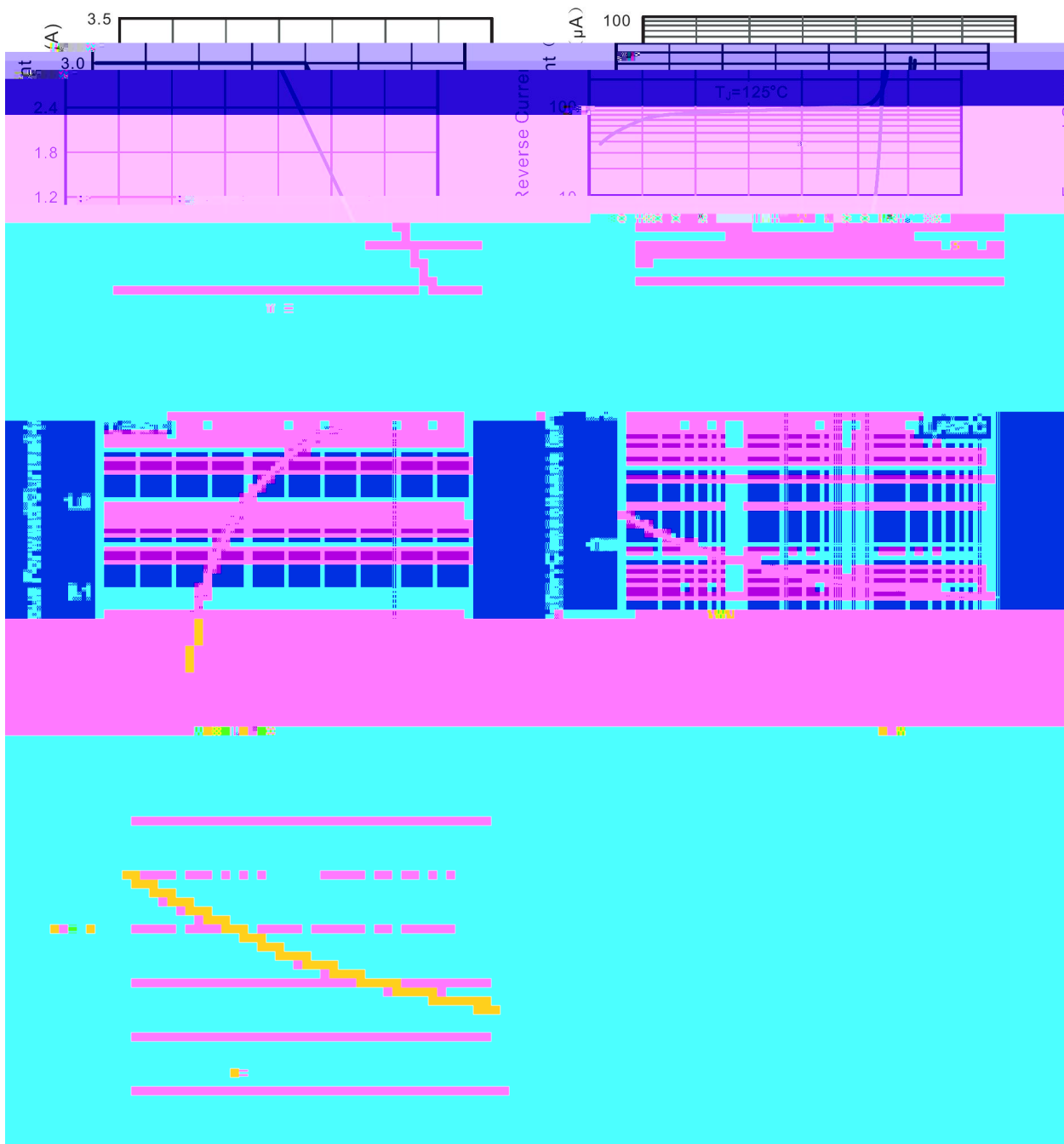
Note:

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

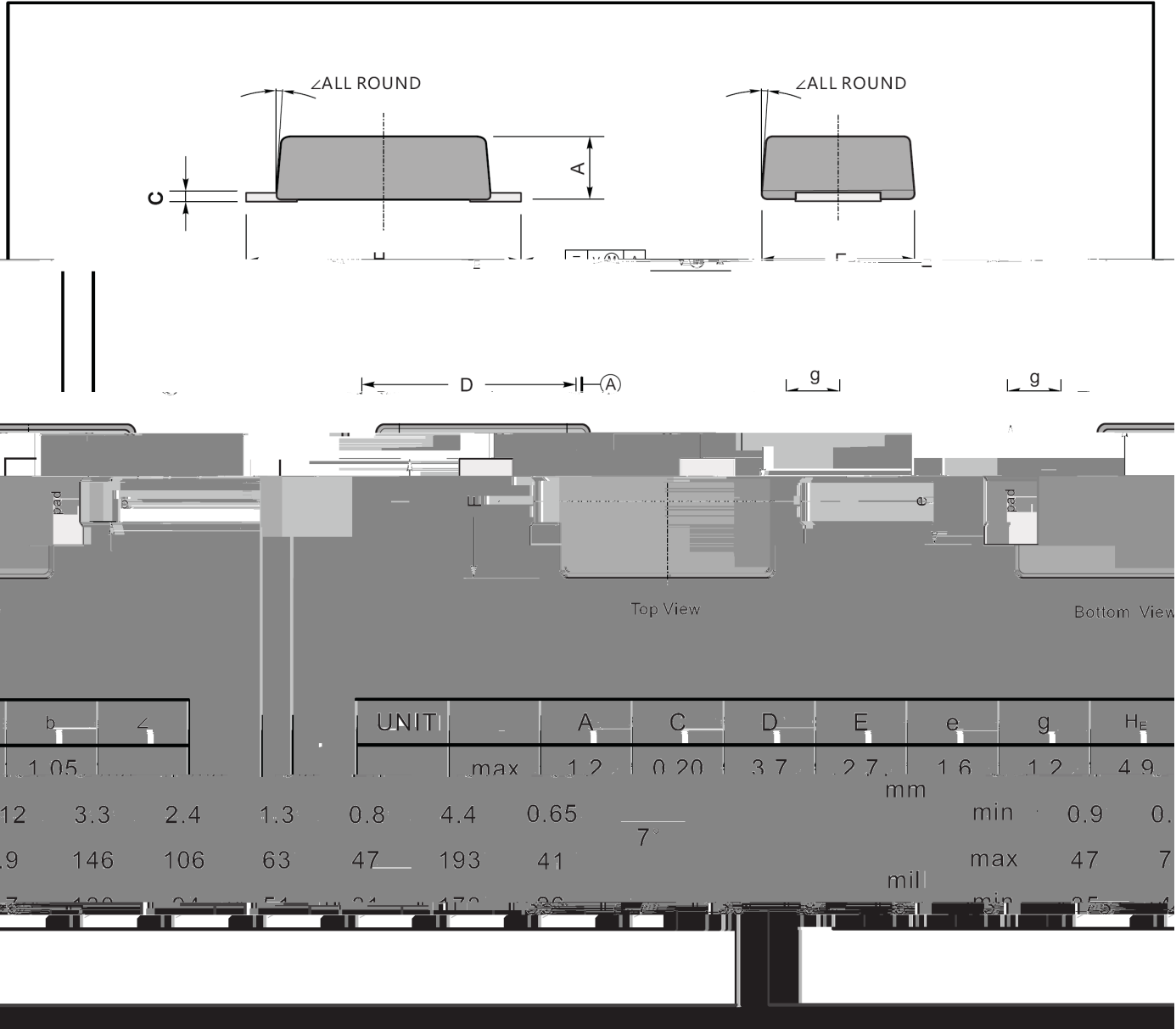
2) P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.

Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Instantaneous Forward Voltage	V_F	$I_F=3.0A$	1.3	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$		

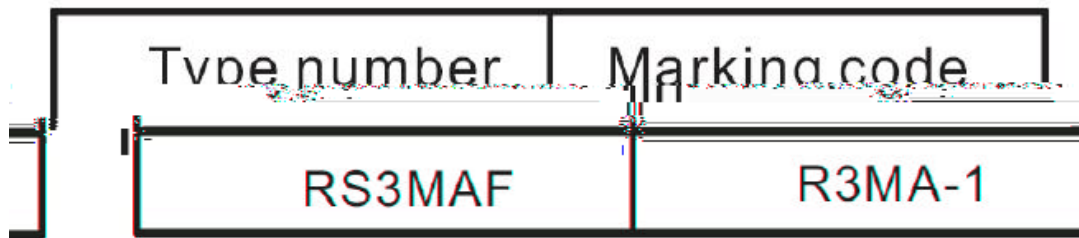
/ Electrical Characteristic Curve



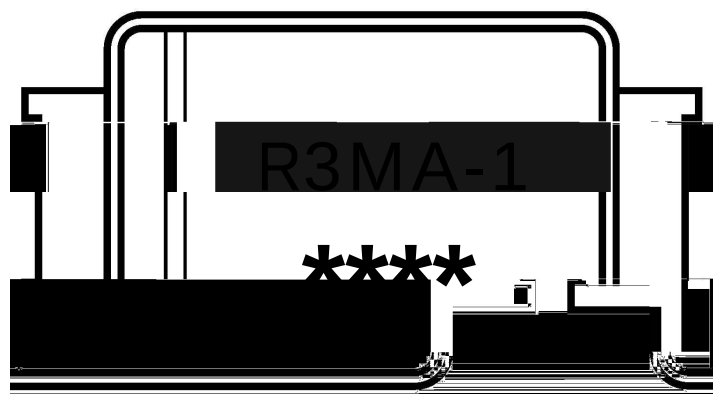
/ Package Dimensions



/ Marking Instructions



/ Marking Instructions



R3MA-1

1

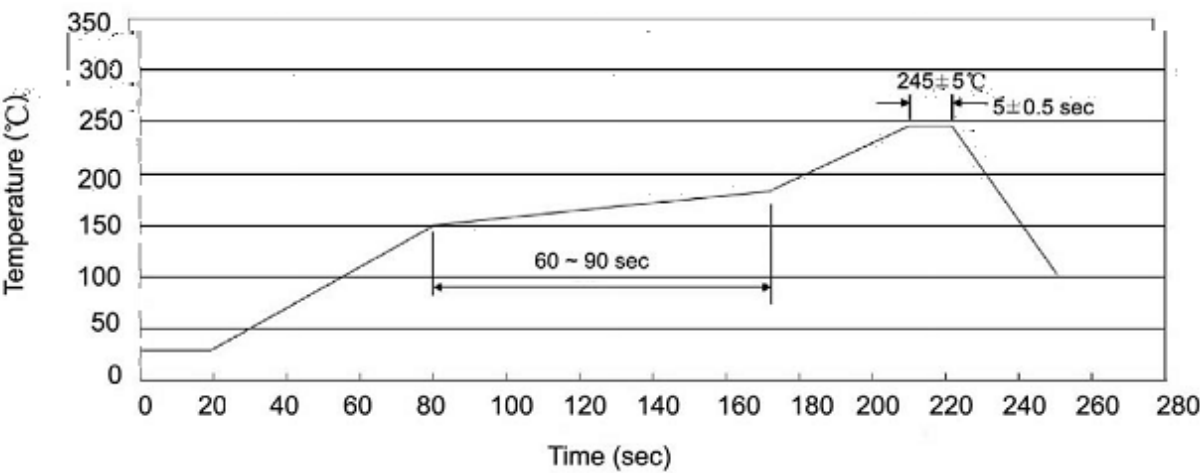
3

Note:

R3MA-1 Product Type Code

**** Lot No. Code The 1st means:YM Code The last 3 means:little
Lot No Code

() /



Note:

- 11501806090sec;

2245±55±0.5sec;

3210/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±510±1 sec.Temp.:260±5Time: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