/ Descriptions

50V~1000V 2.0A SMAF

Surface Mount Fast Recovery Rectifiers, Reverse Voltage 50 to1000V,Forward Current:2.0A ,SMAF thin package.

/ Features

RoHS 2011/65/EU

Features: 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

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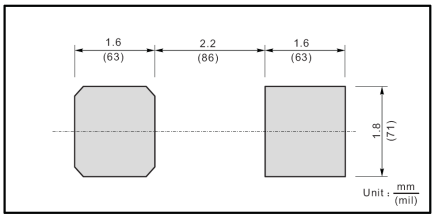
General purpose.

/ Equivalent Circuit

/ Pinning

PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		RS2AF	RS2BF	RS2DF	RS2GF	RS2JF	RS2KF	RS2MF	
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 = 125℃	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Typical Junction Capacitance [1]	C_j	35							pF
Typical Thermal Resistance [2]	$R_{\theta JA}$	60							℃/W
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150							℃

Note:

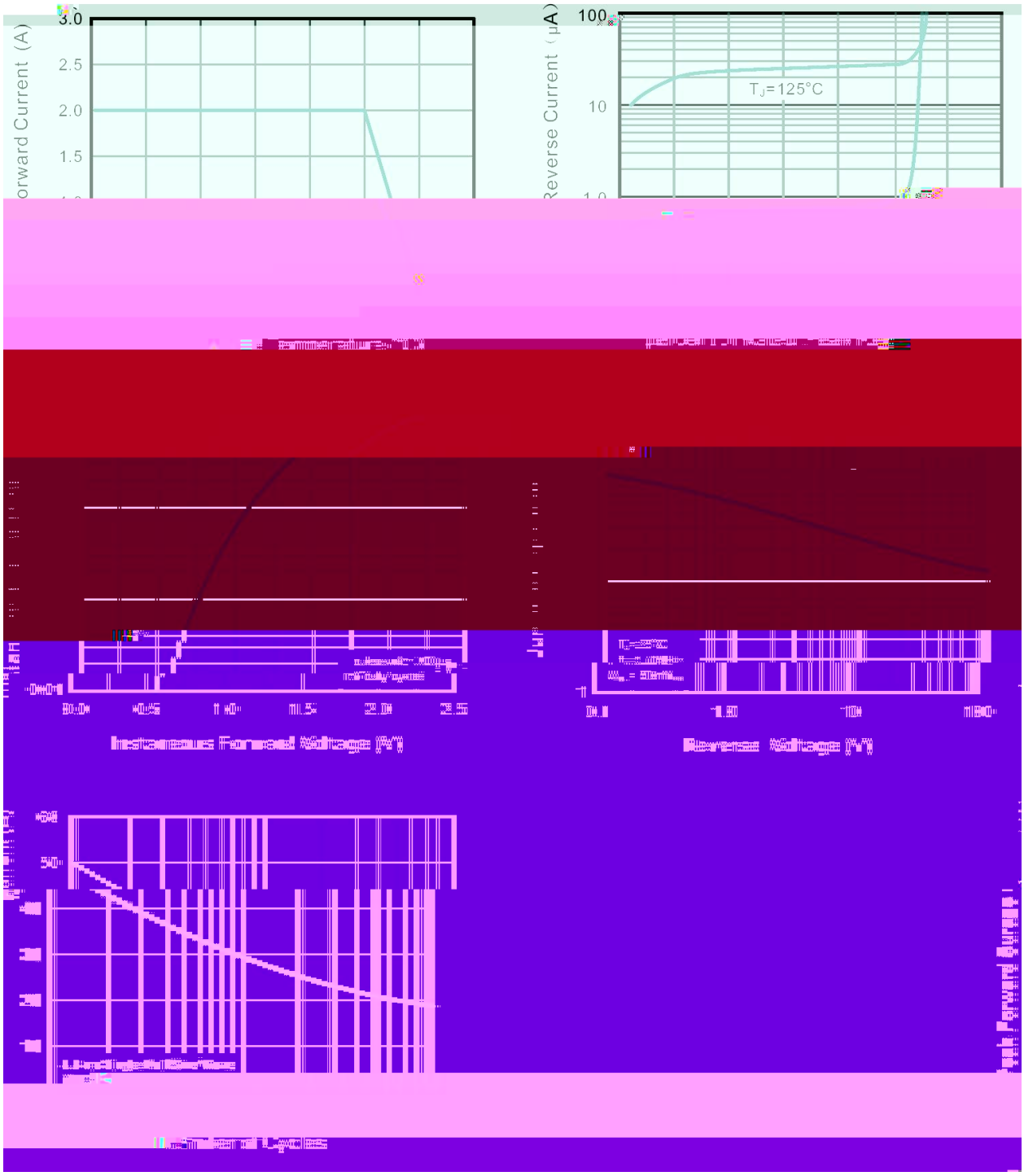
1 Measured at 1MHz and applied reverse voltage of 4V D.C

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

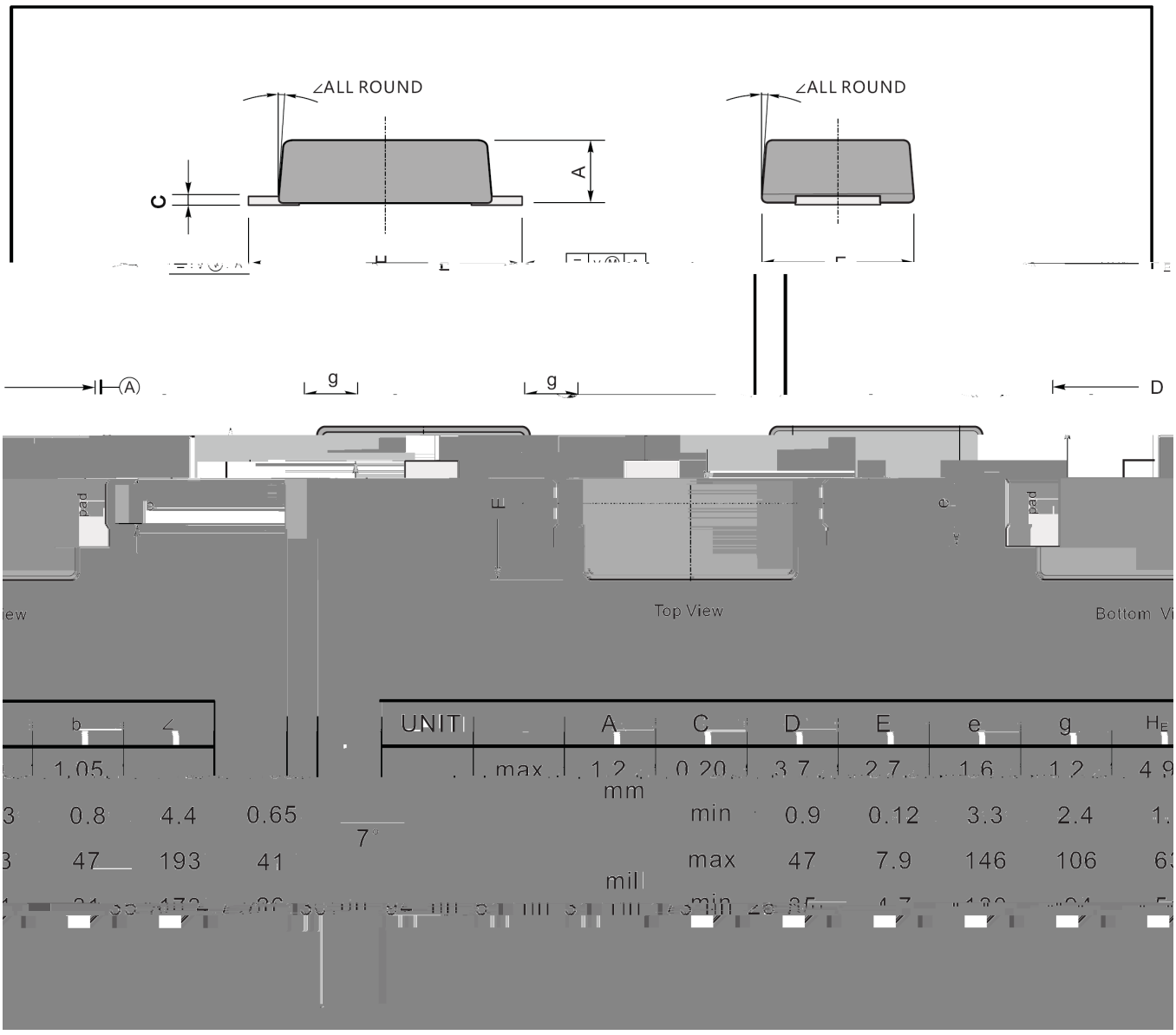
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	数值 Rating							Unit
			RS2AF	RS2BF	RS2DF	RS2GF	RS2JF	RS2KF	RS2MF	
Maximum Instantaneous Forward Voltage	V_F	I_F=2.0A	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25℃	5.0							μA
		T_a=125℃	100							μA
Maximum Reverse Recovery Time	t_{rr}	I_F=0.5A I_R=1.0A I_{rr}=0.25A	150				250	500		ns

/ Electrical Characteristic Curve



/ Package Dimensions



UNIT	A	C	D	E	e	g	H_E
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9
	min	0.9	0.12	3.3	2.4	1.
mil	max	47	7.9	146	106	6
	min					

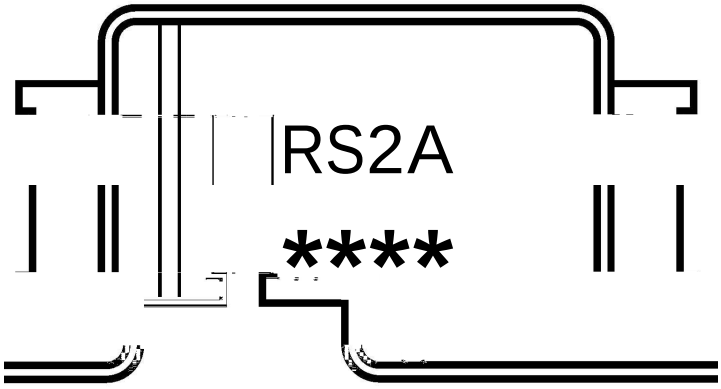
b 1.05 0.8 4.4 0.65 7° 3 47 193 41

/ Marking Instructions

Marking

Type number	Marking code
RS2AF	RS2A
RS2BF	RS2B
RS2DF	RS2D
RS2GF	RS2G
RS2JF	RS2J
RS2KF	RS2K
RS2MF	RS2M

/ Marking Instructions



RS2A

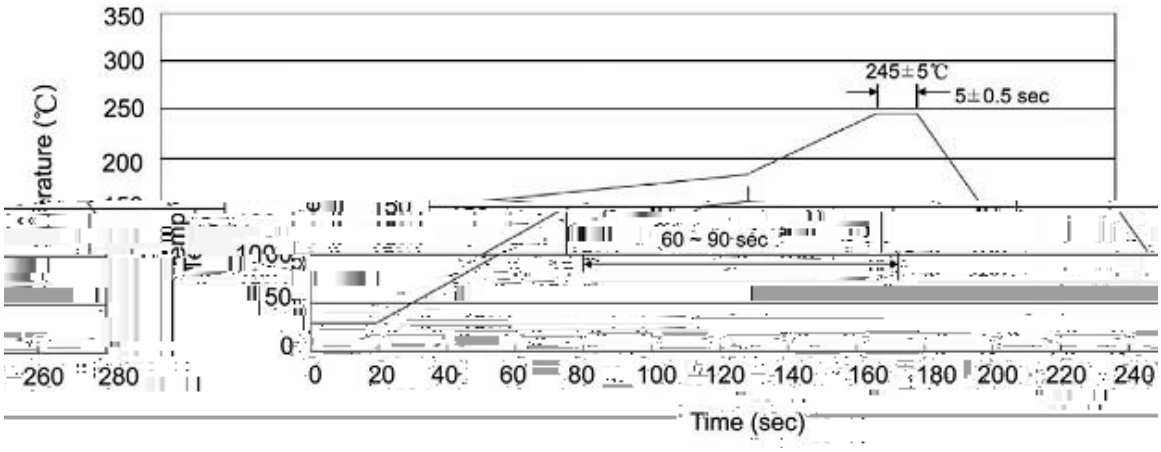
**** 1 * 3 *

Note:

RS2A Product Type Code

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

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

1		150	180		60	90sec;	1.Preheating:150~180 , Time:60~90sec.
2		245±5				5±0.5sec;	2.Peak Temp.:245±5 , Duration:5±0.5sec.
3				2	10	/sec.	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