

/ Descriptions

50V~1000V

2.0A

SMBF

Surface Mount Superfast Recovery Rectifier, Reverse Voltage: 50 to 1000V, Forward Current: 2.0A, SMBF 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

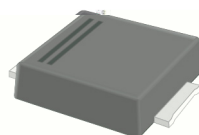
General purpose.

/ Equivalent Circuit



/ Pinning

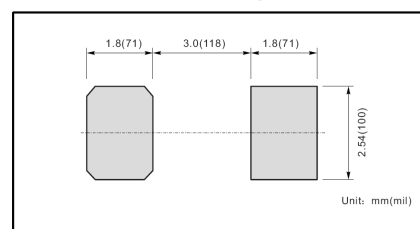
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PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

RS2ABF~RS2MBF

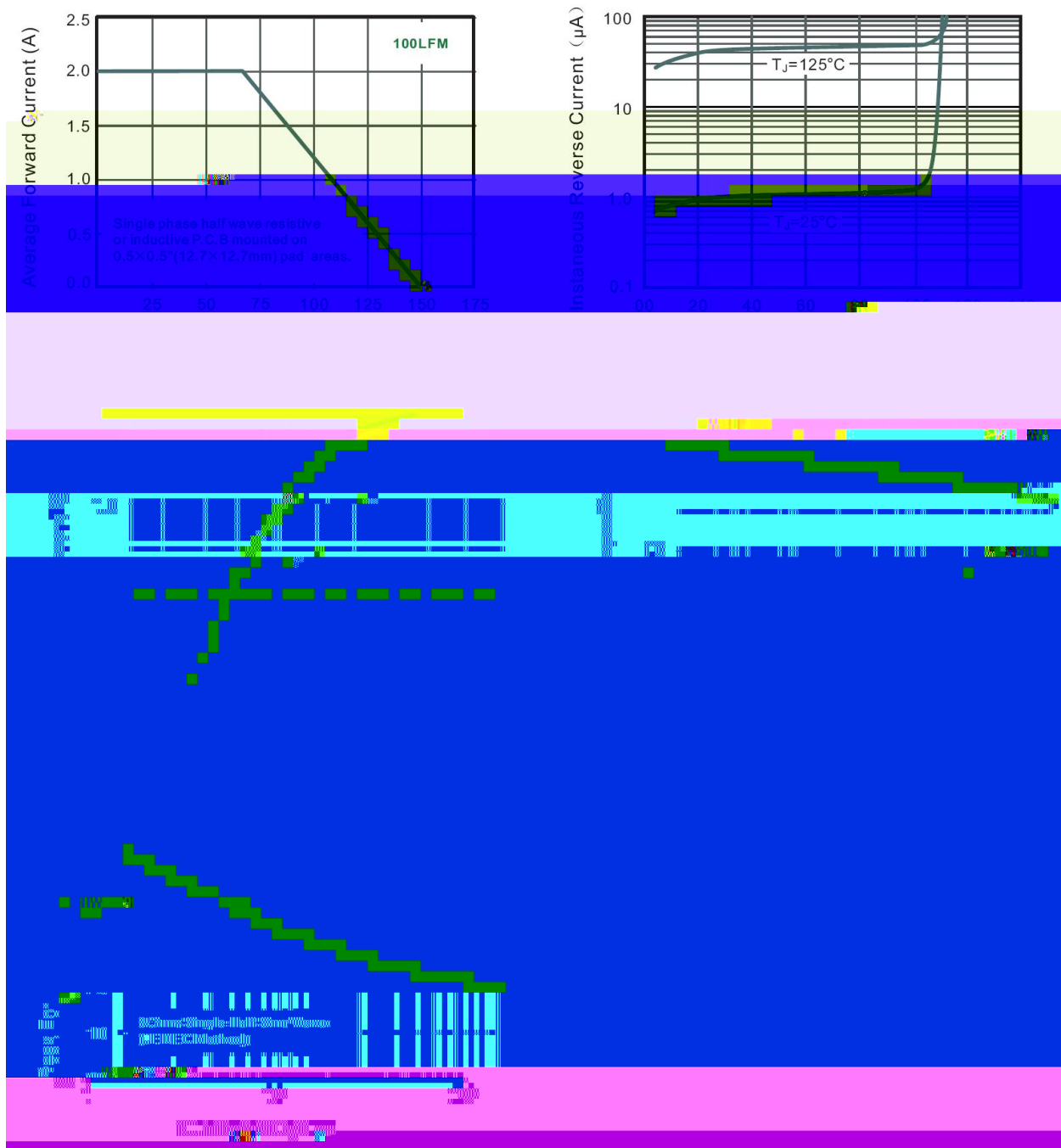
Rev.E May.-2019

Parameter	Symbol	Rating							Unit
		RS2ABF	RS2BBF	RS2DBF	RS2GBF	RS2JBF	RS2KBF	RS2MBF	
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 _a =65°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}	50							A
Typical Junction Capacitance _{at VR=4V, f=1MHz}	C _j	28							pF
Typical Thermal Resistance ₂₎	R _{θja}	60							°C/W
	R _{θJC}	18							

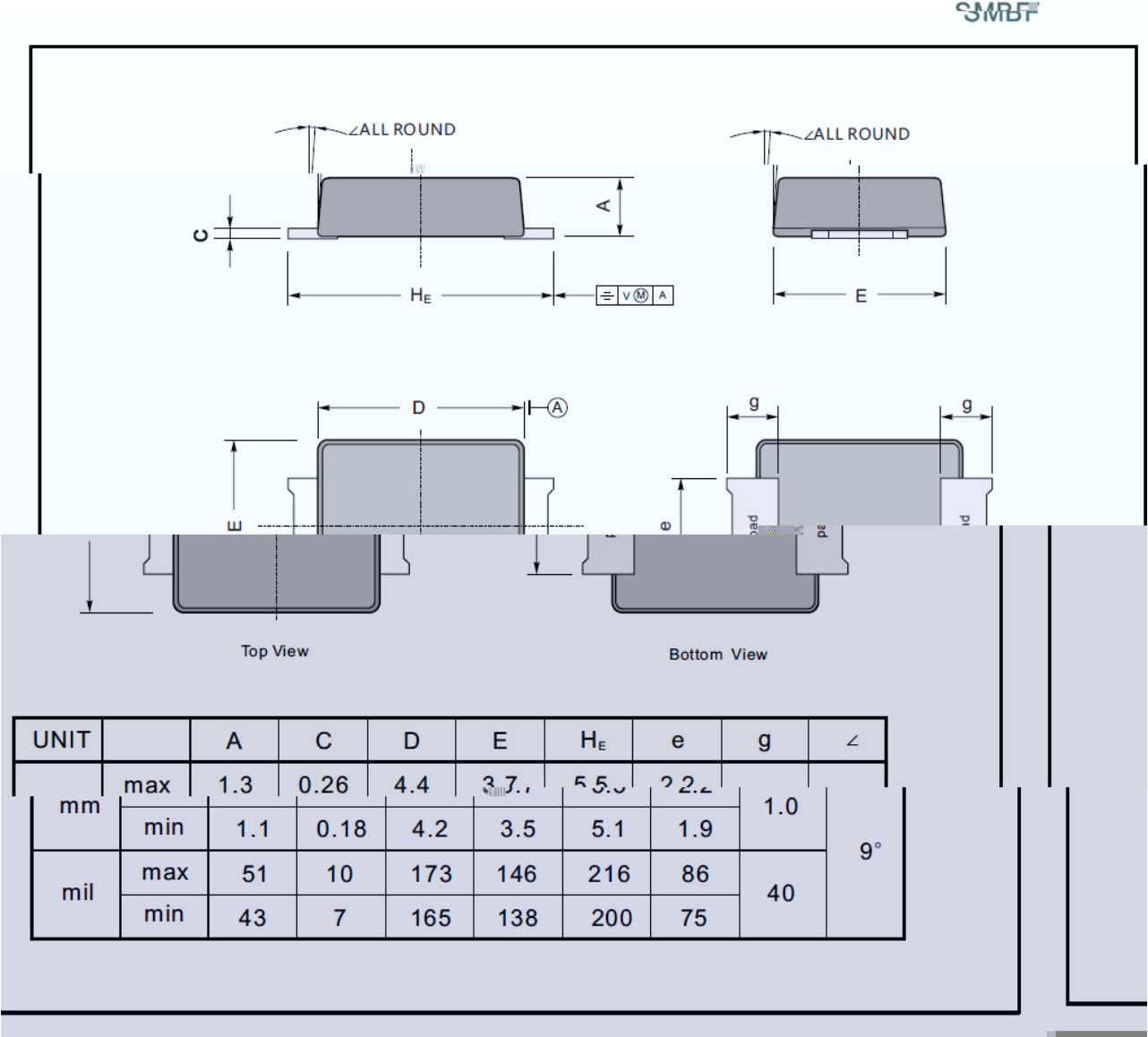
Operating and St



/ Electrical Characteristic Curve



/ Package Dimensions



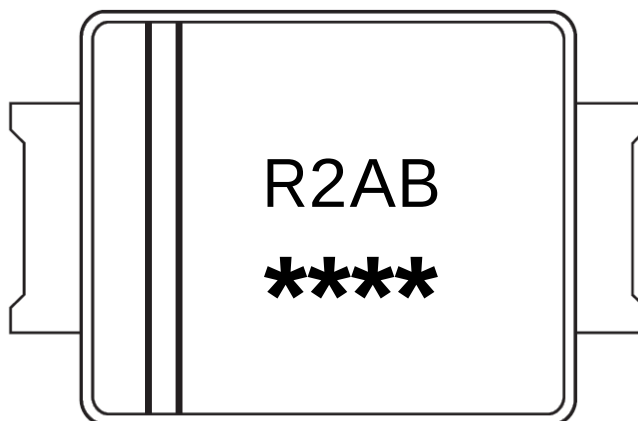
/ Marking Instructions

Marking

Type number	Marking code
RS2ABF	R2AB
RS2BBF	R2BB
RS2DBF	R2DB
RS2GBF	R2GB
RS2JBF	R2JB
RS2KBF	R2KB
RS2MBF	R2MB



/ Marking Instructions



R2AB

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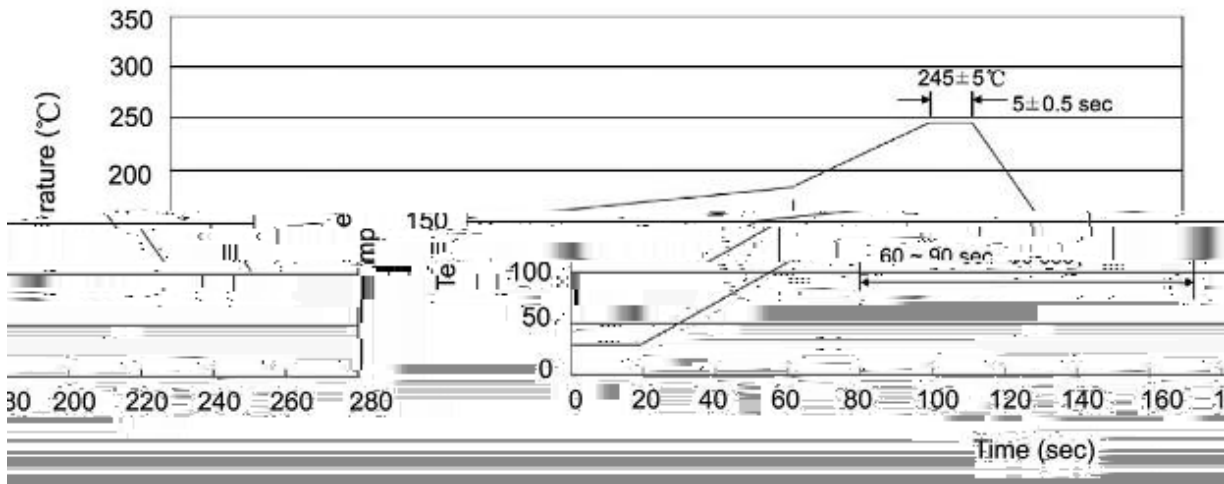
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Note:

R2AB Product Type Code

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

() /



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)		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱		盒	箱
SMBF	5000	2	10000	5	50000	13" ×15	336X336X40	345X345X235

/ Notices