

**/ Descriptions**

50V~1000V                      3.0A                      SMBF

Surface Mount General Purpose Silicon Rectifiers, Reverse Voltage:50 to1000V, Forward Current:3.0A, SMBF thin package.

**/ Features**

RoHS                      2011/65/EU

Glass Passivated Chip Junction, Lead free in comply with EU ROHS 2011/65/EU directives, For surface mounted applications. Halogen free product.

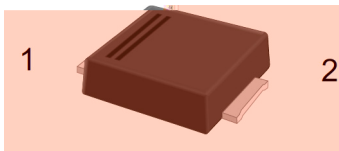
**/ Applications**

General purpose.

**/ Equivalent Circuit**

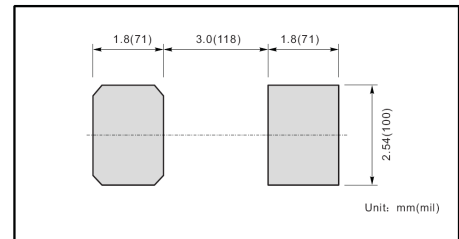


**/ Pinning**



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



**/ Marking**

See Marking Instructions.

## / Absolute Maximum Ratings(Ta=25 )

Parameter	Symbol	Rating							Unit
		S3ABF	S3BBF	S3DBF	S3GBF	S3JBF	S3KBF	S3MBF	
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 $T_a=115$	$I_{F AV}$	3.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	100							A
Typical Junction Capacitance <sup>1</sup>	$C_j$	35							pF
Typical Thermal Resistance <sup>2</sup>	$R_{JA}$	45							/W
	$R_{JC}$	15							
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55~+150							

Note:

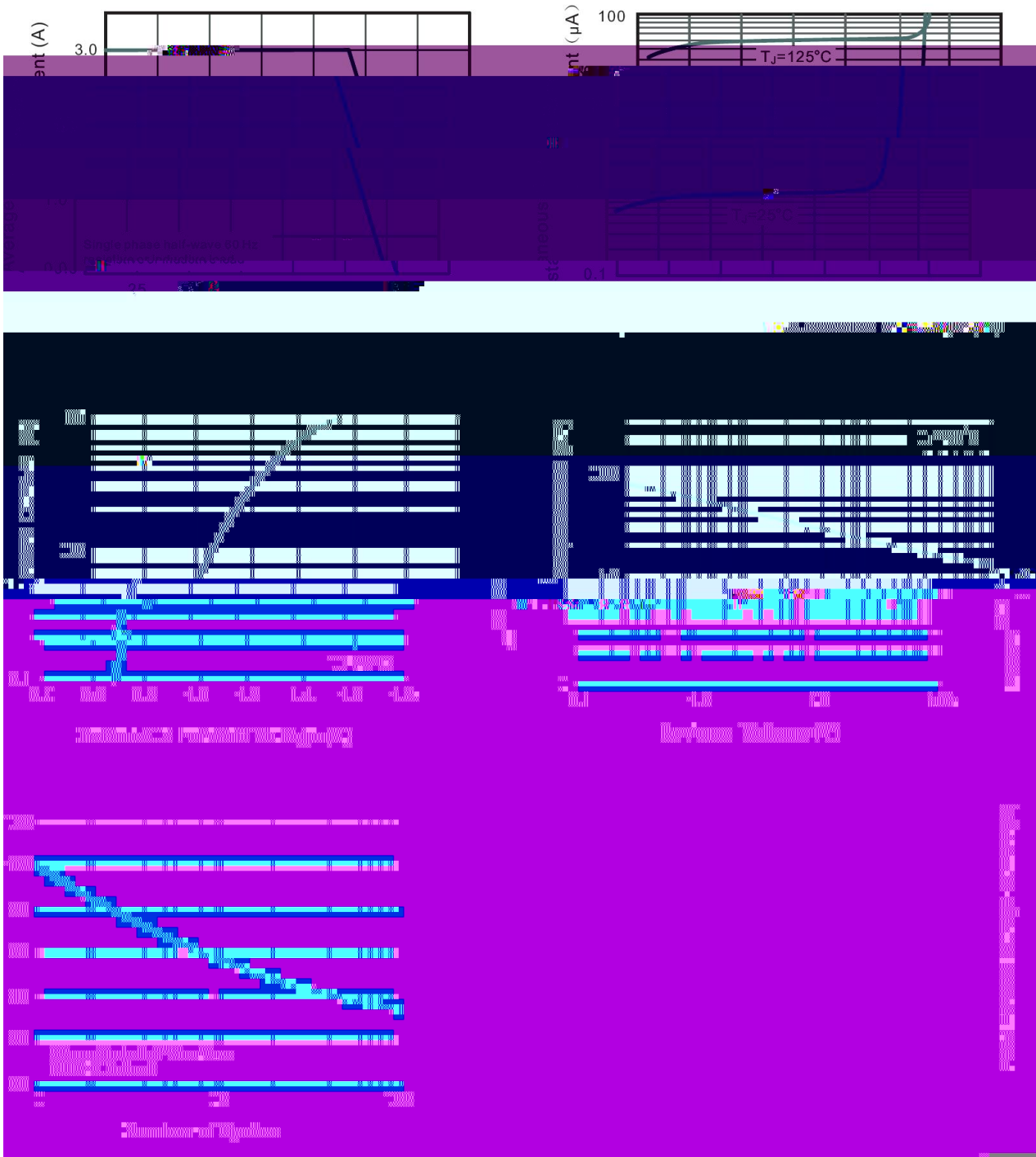
1) Measured at 1MHz and applied reverse voltage of 4V D.C

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

## / Electrical Characteristics(Ta=25 )

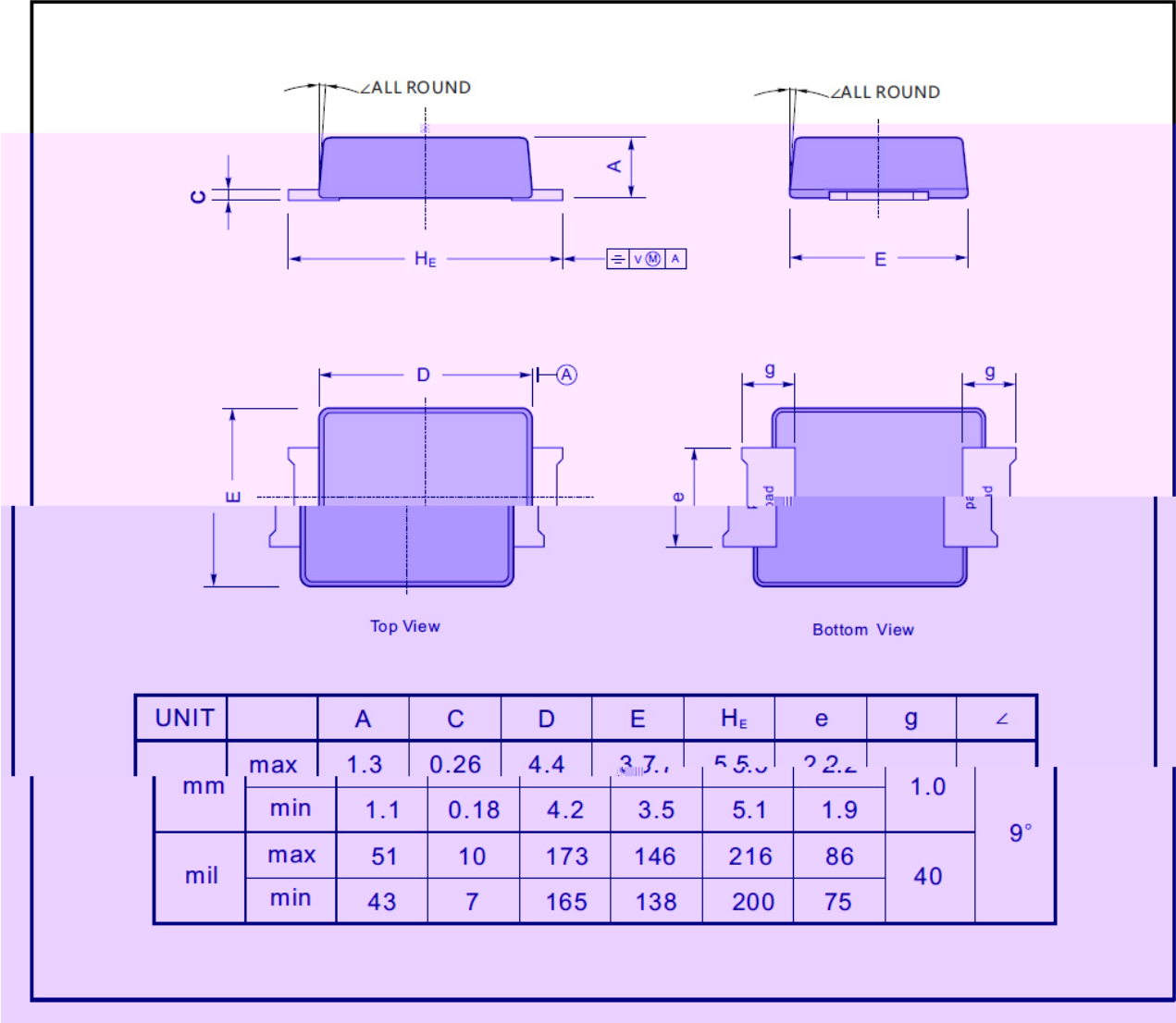
Parameter	Symbol	Test Conditions	Rating	Unit
Maximum Forward Voltage	$V_F$	$I_F=3.0A$	1.1	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	$T_a=25$	5.0	$\mu A$
		$T_a=125$	150	$\mu A$

/ Electrical Characteristic Curve



/ Package Dimensions

S3MBF



**/ Marking Instructions**

/ Marking Instructions



S3AB

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1 \*

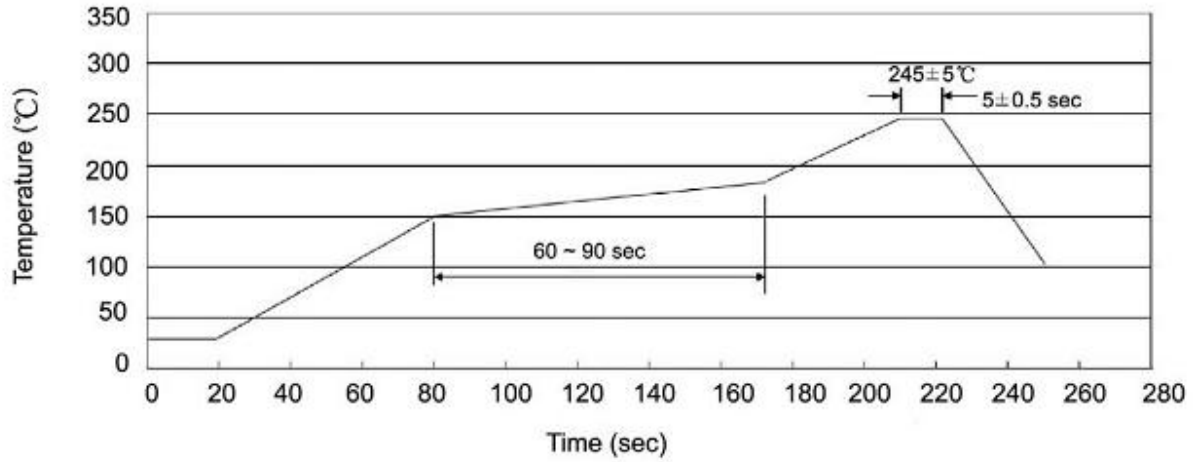
3 \*

Note:

S3AB Product Type Code

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

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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

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	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
SMBF	5000	2	10000	5	50000	13 x15	336X332X40	380X335X366

/ Notices