

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		US3ABF	US3BBF	US3DBF	US3GBF	US3JBF	US3KBF	US3MBF	
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 Tc = 125	I _F AV	3.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	80							A
Typical Thermal Resistance ⁽¹⁾	R _{θJA}	45							°C/W
	R _{θJC}	15							
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150							°C

Note:

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

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test condition	Rating							Unit
			US3ABF	US3BBF	US3DBF	US3GBF	US3JBF	US3KBF	US3MBF	
Maximum Instantaneous Forward Voltage	V _F	I _F =3.0A	1.0			1.3	1.68			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25	5.0							uA
		T _a =125	100							
Maximum Reverse Recovery Time	T _{rr}	I _F =0.5A I _R =1.0A I _{rr} =0.25A	50				75			ns



/ Electrical Characteristic Curve

Fig.1 Maximum Average Forward Current Rating

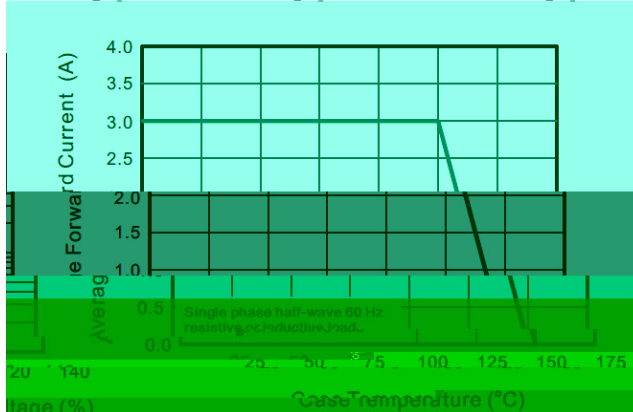


Fig.2 Typical Reverse Characteristics

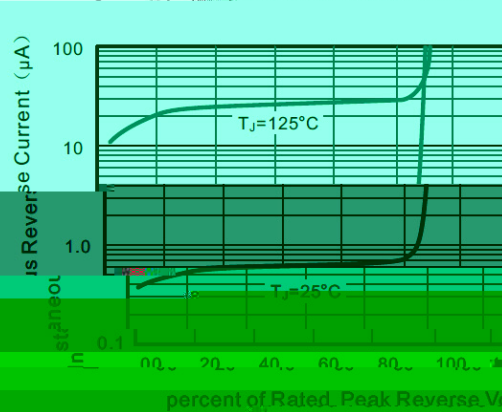


Fig.3 Typical Forward Characteristics

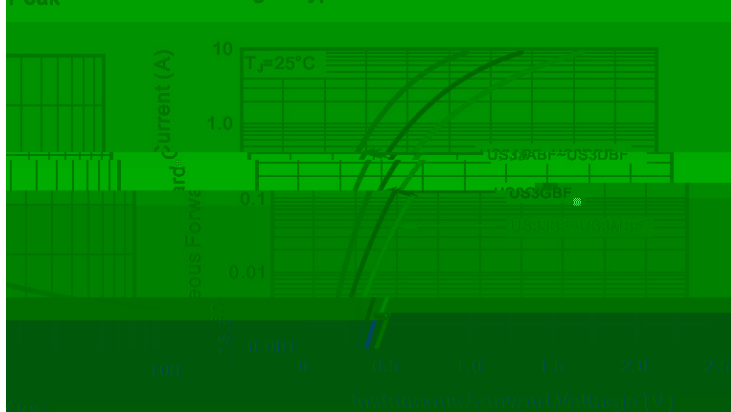
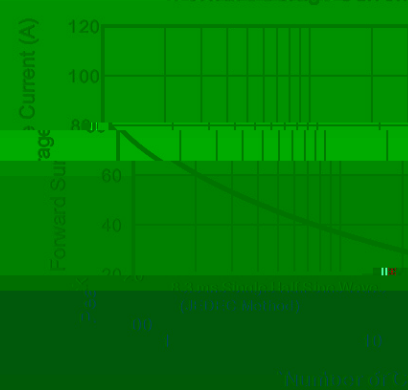
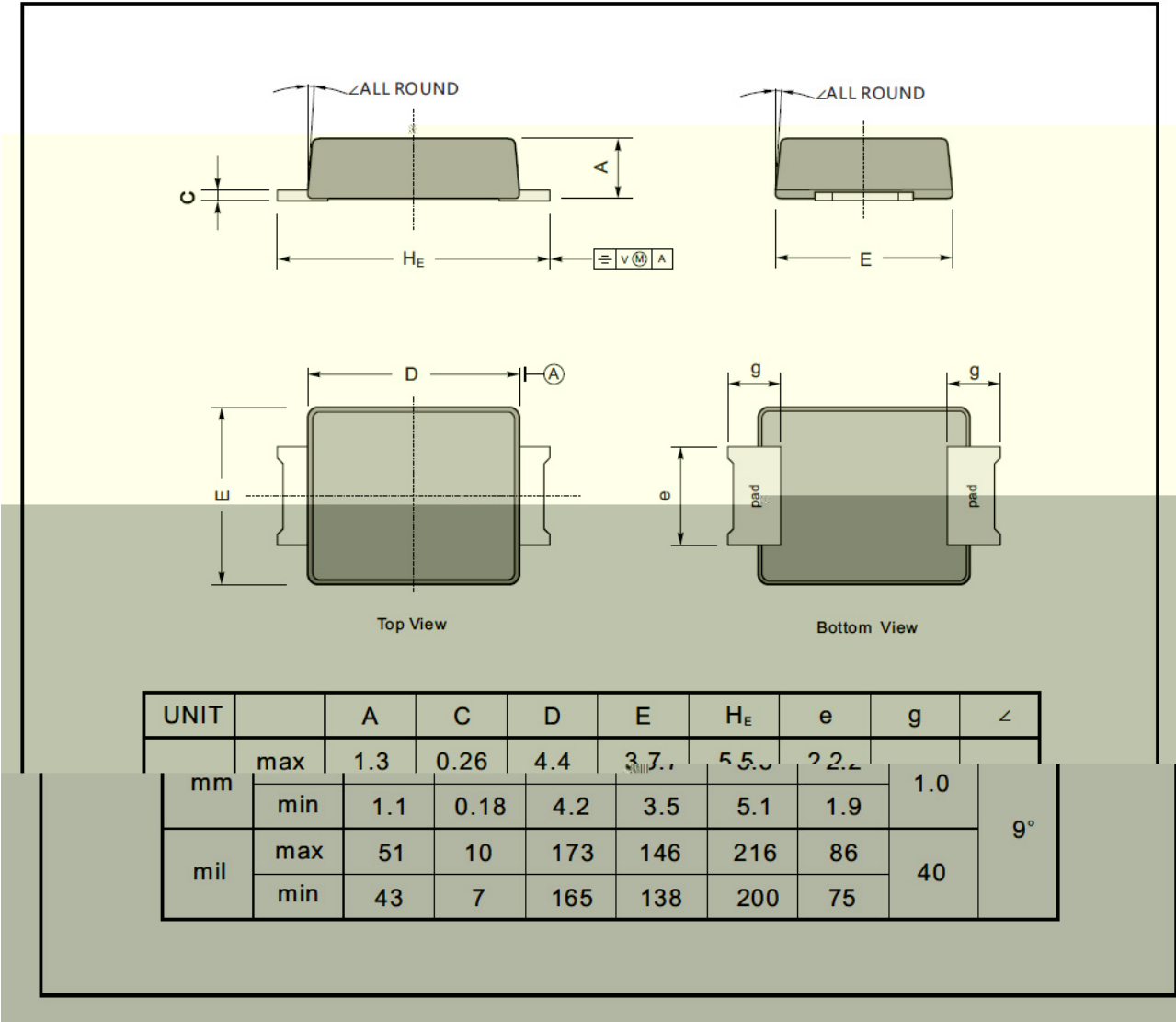


Fig.4 Maximum Non-Repetitive Forward Surge Current



/ Package Dimensions

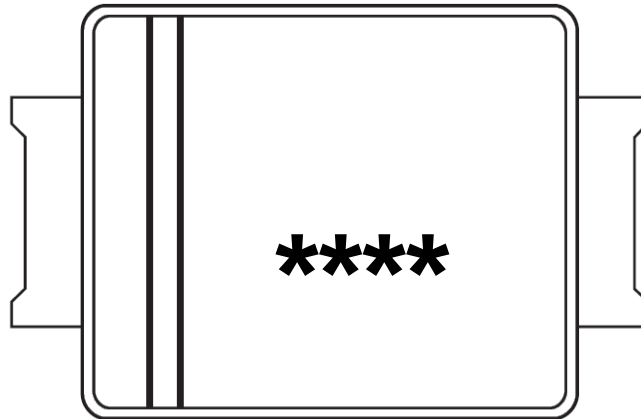
SMBF



/ Marking Instructions

Marking code			Type number	M
U3ABF	U3ABF	U3ABF	U3ABF	
U3BBF	U3BBF	U3BBF	U3BBF	
U3DBF	U3DBF	U3DBF	U3DBF	
U3GBF	U3GBF	U3GBF	U3GBF	
U3JBF	U3JBF	U3JBF	U3JBF	
U3KBF	U3KBF	U3KBF	U3KBF	
U3LBF	U3LBF	U3LBF	U3LBF	
U3MBF	U3MBF	U3MBF	U3MBF	

/ Marking Instructions

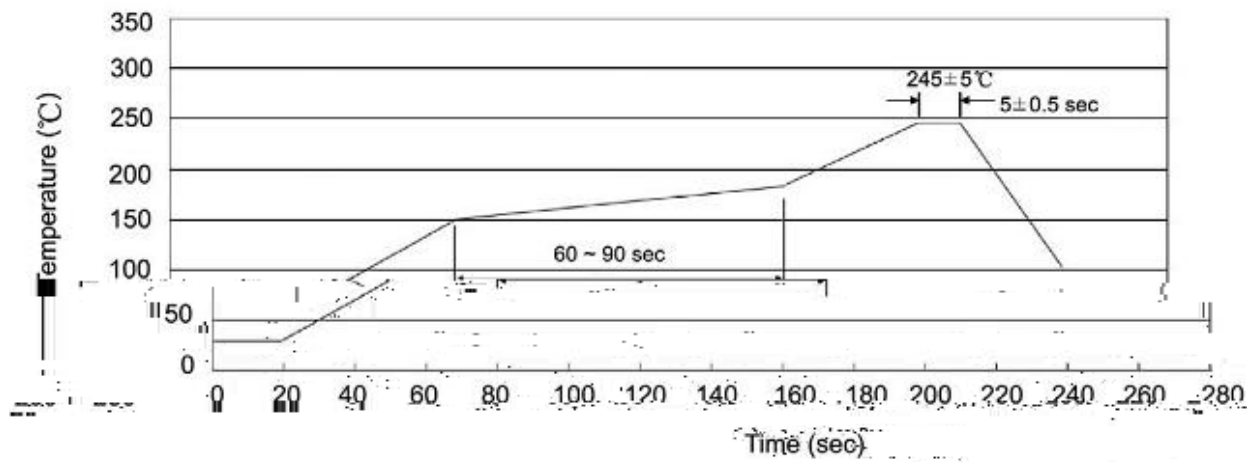


Note:

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;
- 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	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMBF	5000	2	10000	5	50000	13 ×15	336X332X40	380X335X366

/ Notices