

/ 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:

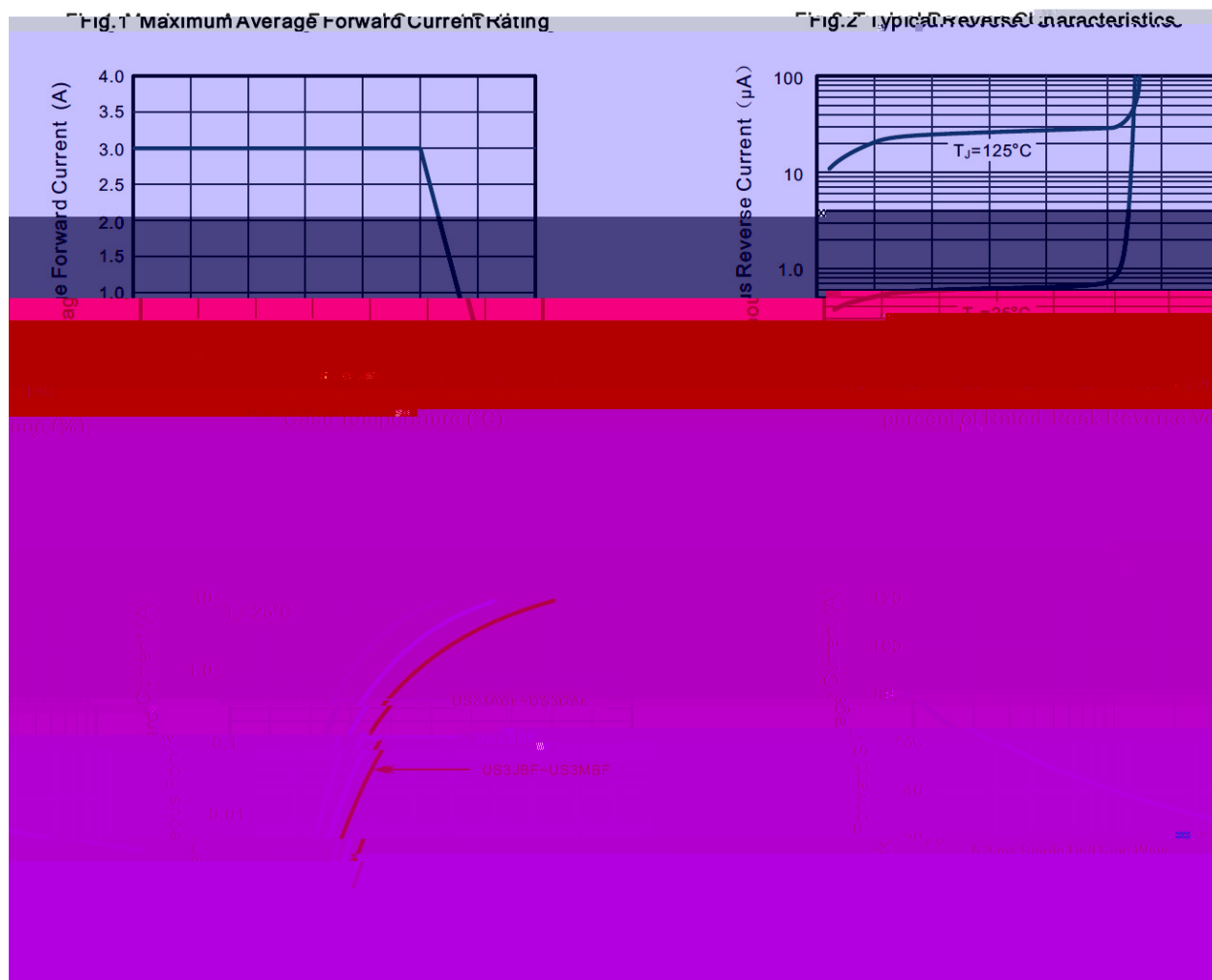
(1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas .

/ Electrical Characteristics(Ta=25)

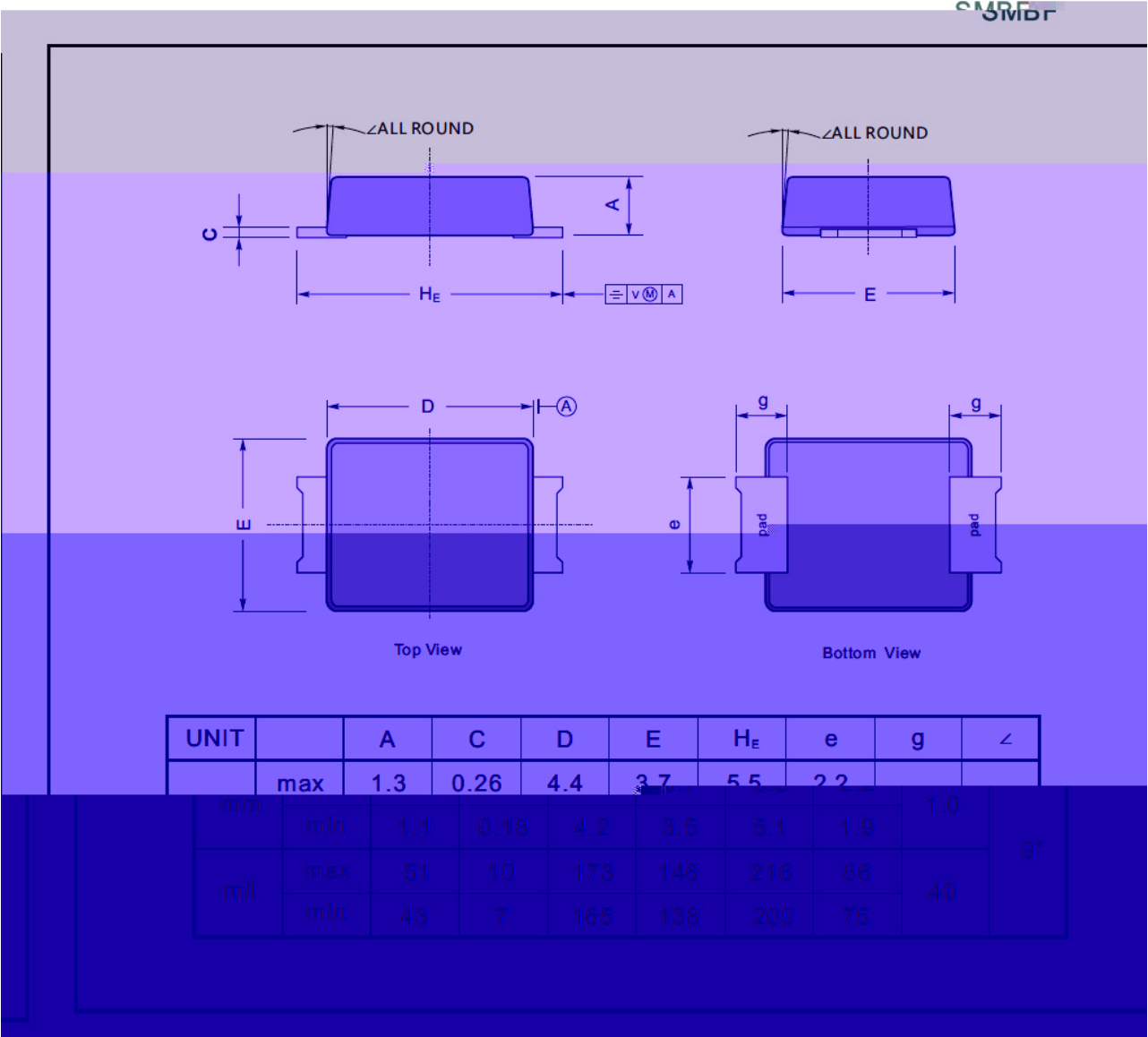
Parameter	Symbol	Test condition	Rating							Unit
			US3ABF	US3BBF	US3DBF	US3GBF	US3JBF	US3KBF	US3MBF	
Maximum Instantaneous Forward Voltage	V _F	I _F =3.0A	1.0			1.3	1.68			V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25	5.0							uA
		T _a =125	100							
Maximum Reverse Recovery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



I Electrical Characteristic Curve



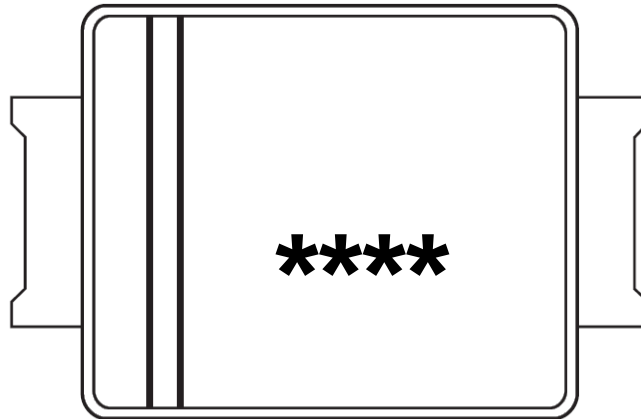
/ Package Dimensions



/ Marking Instructions

Marking code		Type number	
U3AB		US3ABF	
U3BB		US3BBBF	
U3DB		US3DBBF	
U3GB		US3GBBF	
U3JB		US3JBBF	
U3KB		US3KBBF	
U3MB		US3MBBF	

/ Marking Instructions

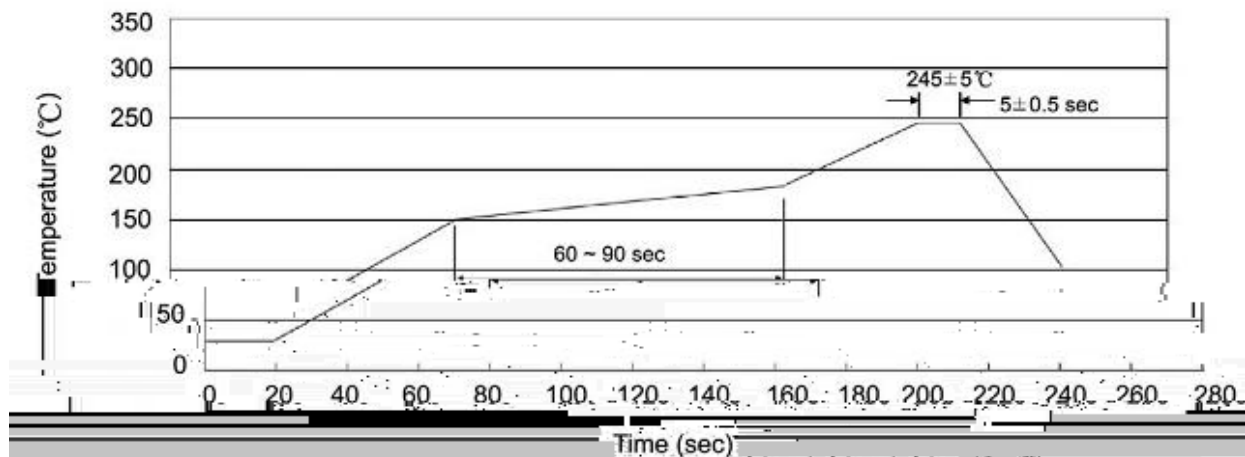


Note:

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	Units					Dimension (unit mm ³)		
SMBF	5000	2	10000	5	50000	13 ×15	336X332X40	380X335X366

/ Notices