

Rev.F May.-2019

50V~1000V 2.0A SMAF

Surface Mount Ultrafast Recovery Rectifier, Reverse Voltage: 50 to 1000V, Forward Current: 2.0A, SMAF thin package.

RoHS 2011/65/EU

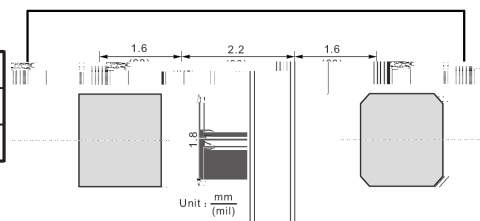
Glass Passivated Chip Junction High efficiency Lead free in comply with EU R HS 2011/65/EU directives For surface mounted applications. Halogen free product.

General purpose.



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



See Marking Instructions.

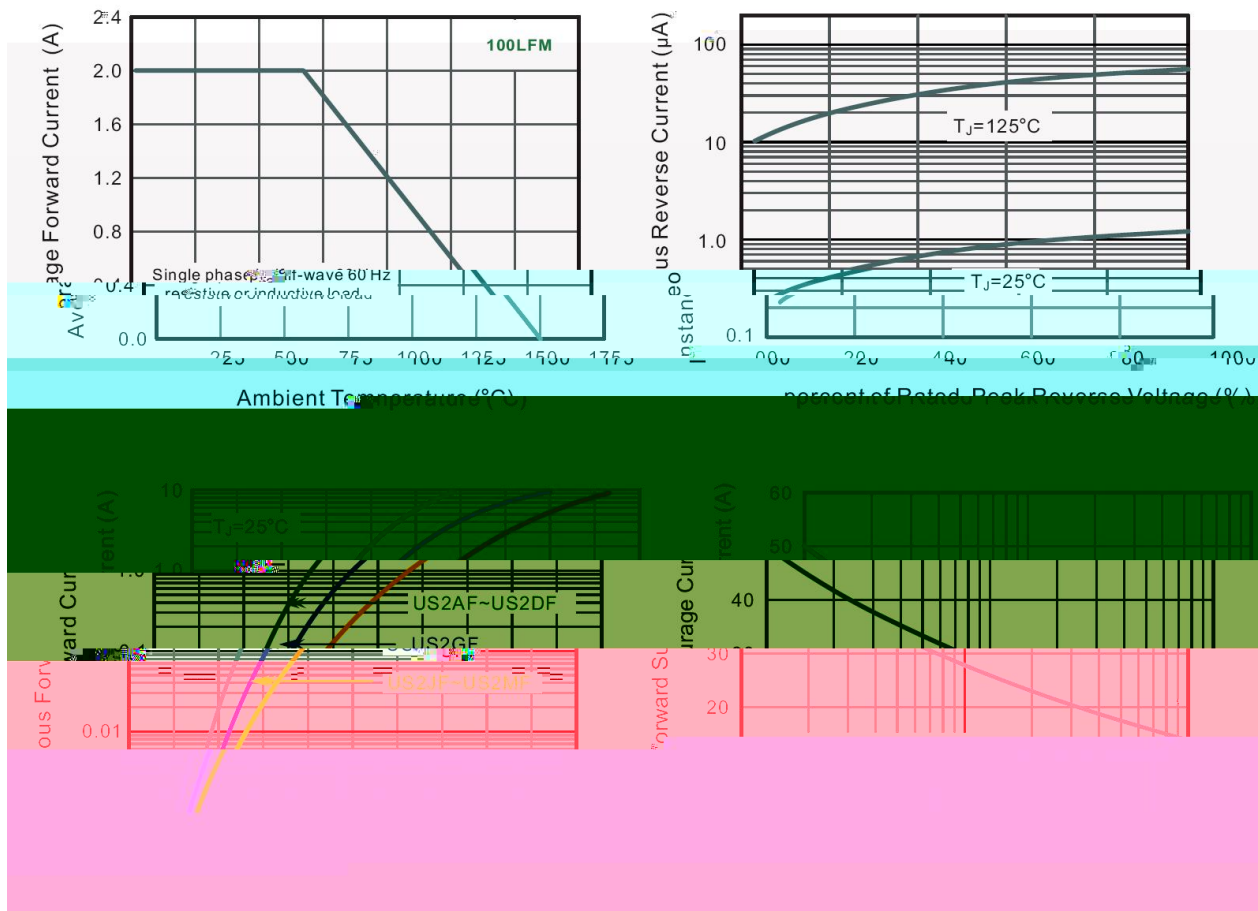
Parameter	Symbol	Rating							Unit
		US2AF	US2BF	US2DF	US2GF	US2JF	US2KF	US2MF	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_a = 65$	$I_{F\ AV}$	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 Thermal Resistance ¹⁾	$R_{\theta JA}$	75							/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							

Note:

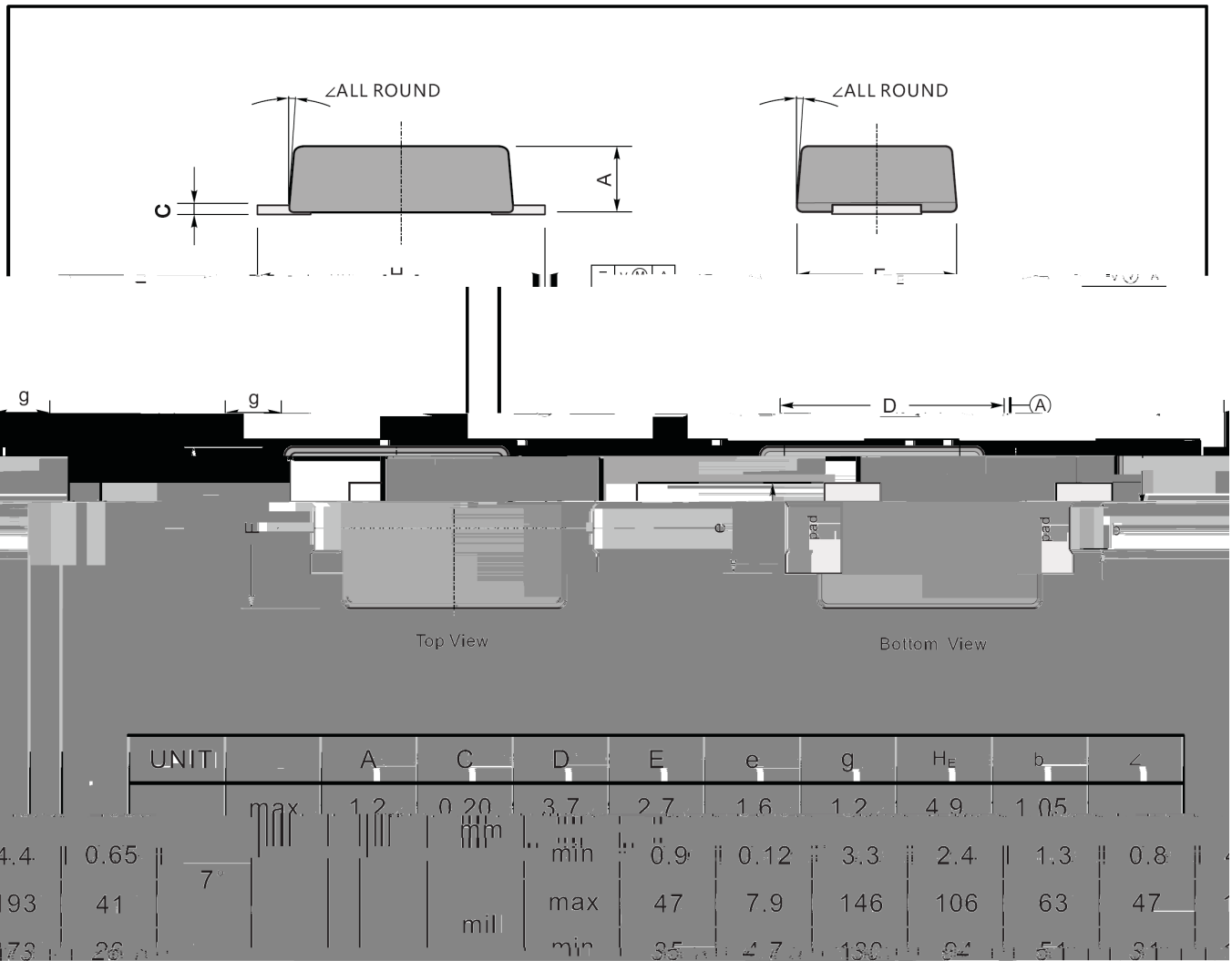
1) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areass .

Parameter	Symbol	Test condition	Rating							Unit
			US2AF	US2BF	US2DF	US2GF	US2JF	US2KF	US2MF	
Maximum Instantaneous Forward Voltage	V _F	I _F =2.0A	1.0			1.3	1.65			V
Maximum DC Reverse Current at Maximum 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

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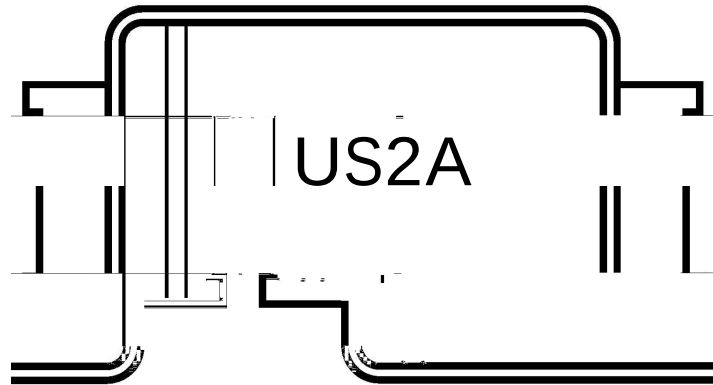


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Marking

Type number	Marking code
US2AF	US2A
US2BF	US2B
US2DF	US2D
US2GF	US2G
US2JF	US2J
US2KF	US2K
US2MF	US2M



US2A

1 *

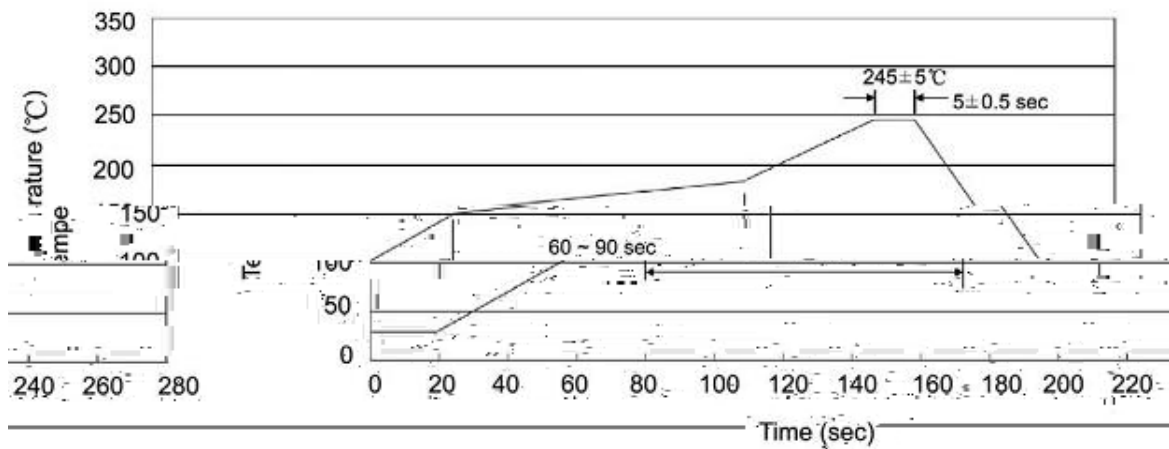
3 *

Note:

US2A 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.

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	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
SMAF	3000	5	15000	5	75000	7 ×11	185X180X105	390X385X205