

/ Descriptions

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

/ Features

Glass Passivated Chip Junction High efficiency 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

/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Rating							Unit
		US2AB	US2BB	US2DB	US2GB	US2JB	US2KB	US2MB	
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 $T_c = 125^\circ\text{C}$	$I_{F\text{ AV}}$	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50							A
Typical Thermal Resistance ⁽¹⁾	$R_{\theta JA}$	60							/W
Typical Junction Capacitance at $V_R=4\text{V}$, $f=1\text{MHz}$	C_j	20							pF
Operating and Storage Temperature Range	T_j, T_{stg}	$-55\sim+150$							

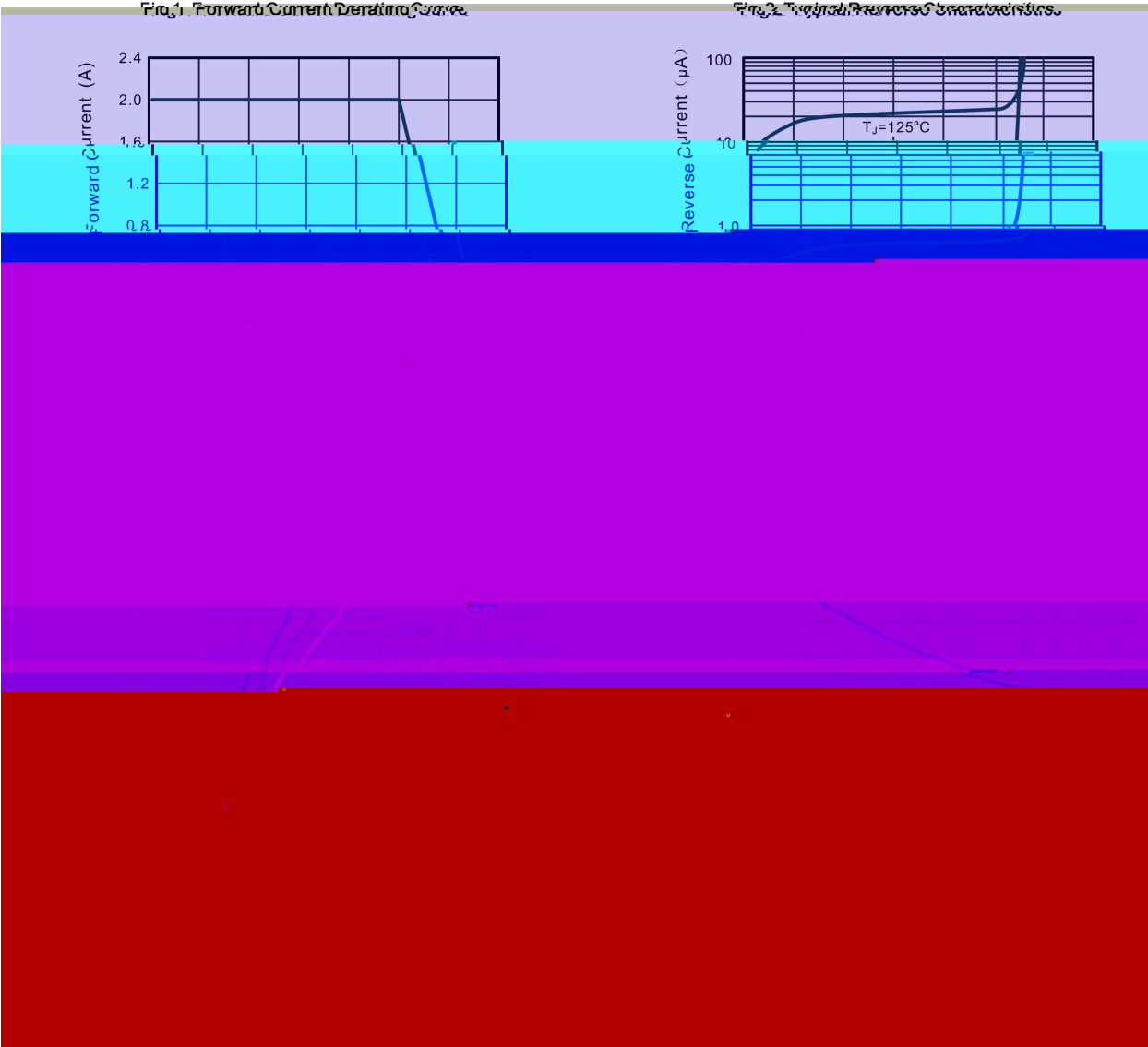
Note:

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

/ Electrical Characteristics($T_a=25^\circ\text{C}$)

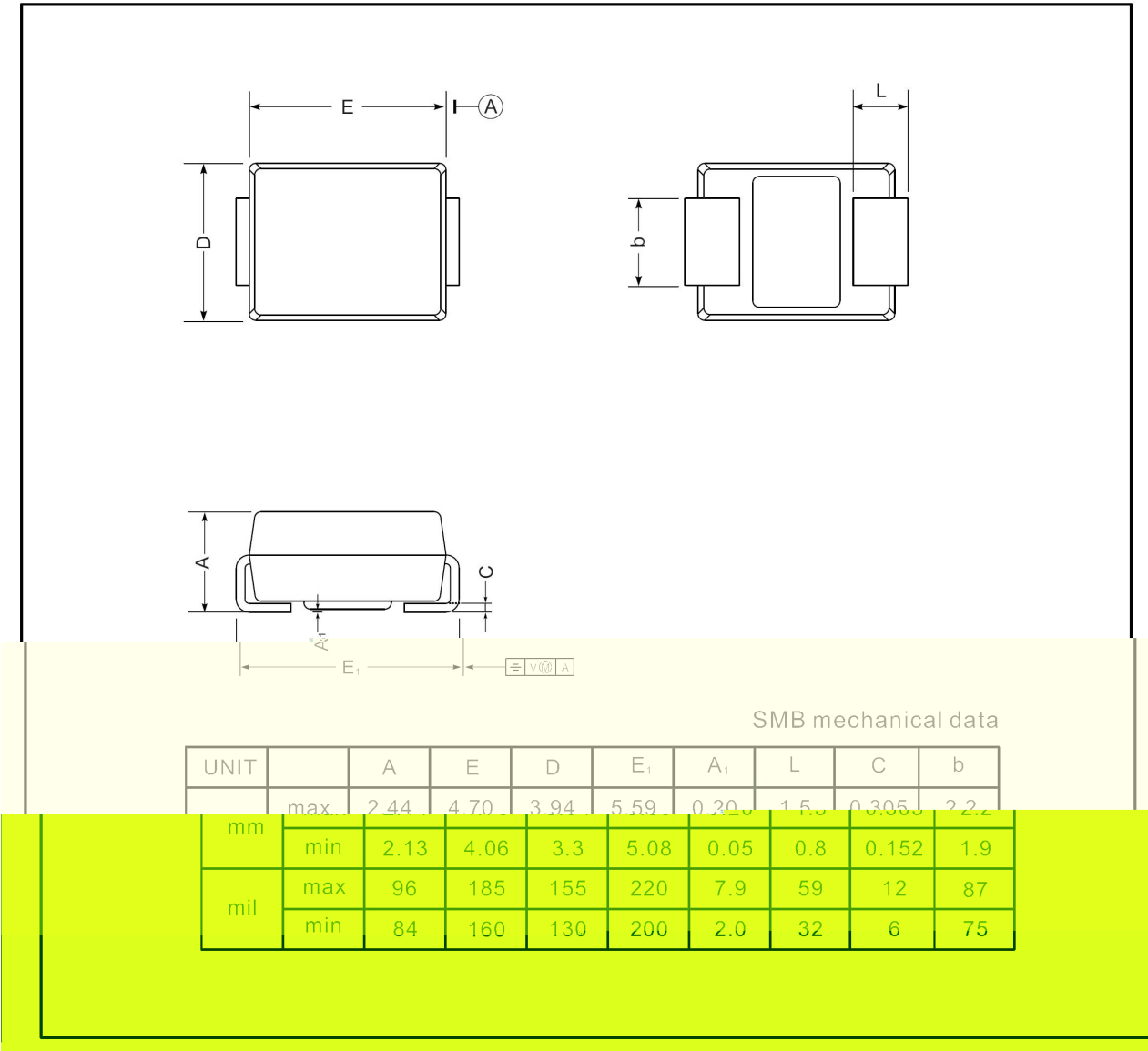
Parameter	Symbol	Test condition	Rating							Unit
			US2AB	US2BB	US2DB	US2GB	US2JB	US2KB	US2MB	
Maximum Instantaneous Forward Voltage	V _F	I _F =2.0A	1.0			1.3	1.65			V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I _R	T _a =25	5.0							uA
		T _a =125	100							
Maximum Reverse Recovery Time	T _{rr}	I _F =0.5A I _R =1.0A I _{rr} =0.25A	50				75			ns

/ Electrical Characteristic Curve



/ Package Dimensions

SMB





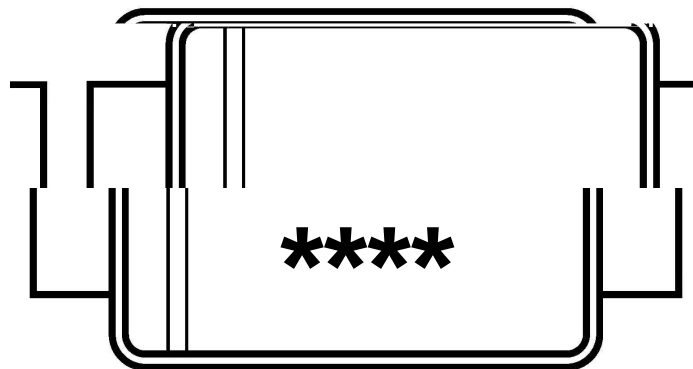
/ Marking Instructions

Marking

Type number	Marking code
US2AB	US2A
US2BB	US2B
US2DB	US2D
US2GB	US2G
US2JB	US2J
US2KB	US2K
US2MB	US2M



/ Marking Instructions



*

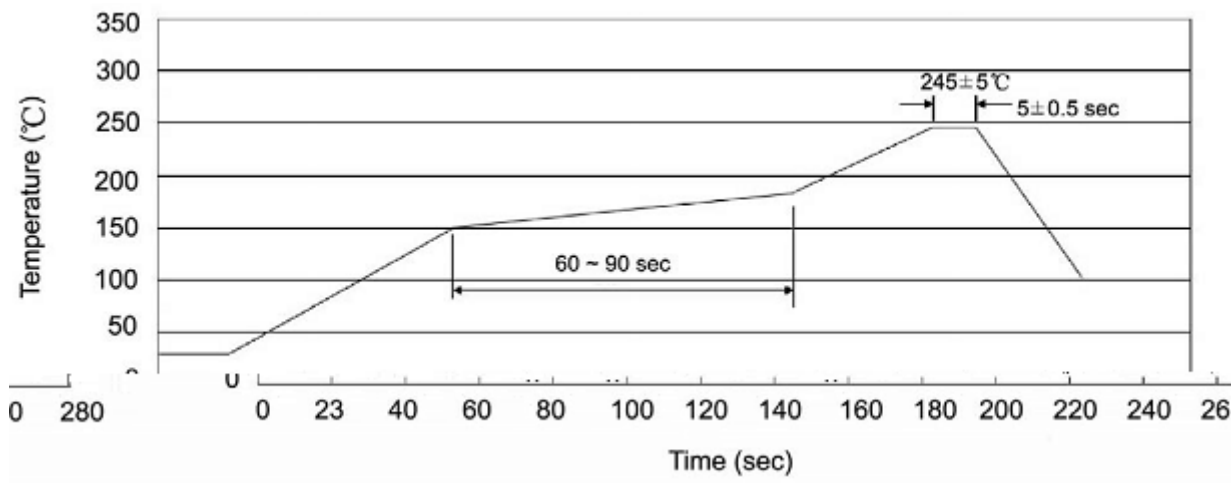
*

Note:

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

25

150

60

90sec;
- 2
- 1.Preheating:25~150 , Time:60~90sec.