50V~1000V 3.0A SMB

Surface Mount Fast Recovery Rectifiers, Reverse Voltage 1

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB	
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	$I_{F\ AV}$	3.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	90							A
Typical Junction Capacitance at VR=4V f=1MHz	C_j	40							pF
Typical Thermal Resistance [1]	$R_{\theta JA}$	48							/W
	$R_{\theta JC}$	16							
Operating and Storage Temperature Range	T_j,T_{stg}	-55~+150							

Note:

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

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating							Unit
			RS3AB	RS3BB	RS3DB	RS3GB	RS3JB	RS3KB	RS3MB	
Maximum Instantaneous Forward Voltage	V_F	I_F=3.0A	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	T_a=25	5.0							μA
		T_a=125	100							μA
Maximum Reverse Recovery Time	t_{rr}	I_F=0.5A I_R=1.0A I_{rr}=0.25A	150				250	500		ns

/ Electrical Characteristic Curve

Fig.1 Maximum Average Forward Current Rating

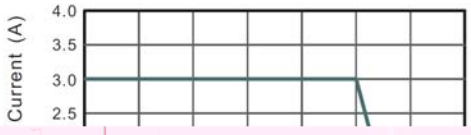
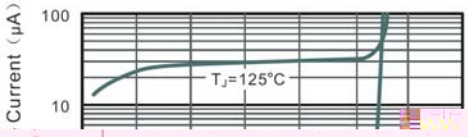


Fig.2 Typical Reverse Characteristics



/ Marking Instructions

Marking

Type number	Marking code
RS3AB	RS3A
RS3BB	RS3B
RS3DB	RS3D
RS3GB	RS3G
RS3JB	RS3J
RS3KB	RS3K
RS3MB	RS3M

/ Marking Instructions

RS3A

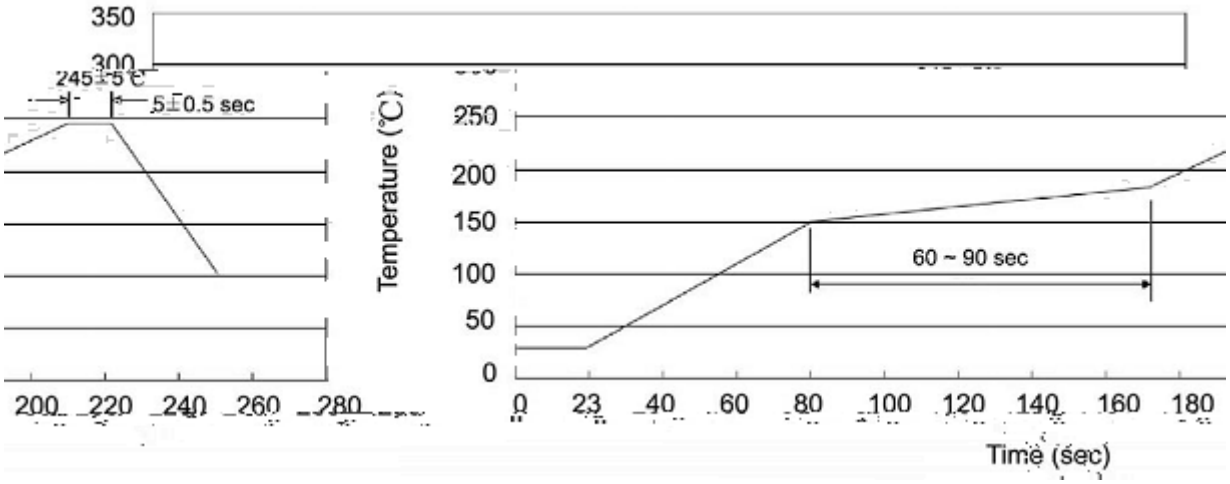
**** 1 3

Note:

RS3A Product Type Code

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

( ) /



Note:

1 25 150 60 90sec;

1.Preheating:25~150 , 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^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
SMB	3000	5	15000	5	75000	7 ×11	185X180X105	390X385X205

/ Notices