

RS2AW~RS2MW

Rev.F Jul.-2022



DATA SHEET

版本	修订日期	有修订的页码	修订涉及的内容	拟制	审核
E	2017-10				



Ta= 65℃改为 Ta= 125℃，更新 Ta 曲线图,C_i由 40pF 更新为 30pF，
R

F 2022-7-23 2



/ Descriptions

50V~1000V

2.0A

SOD-123FL

Surface Mount Fast Recovery Rectifiers, Reverse Voltage: 50 to 1000V, Forward Current: 2.0A, SOD-123FL thin package.

/ Features

RoHS

2011/65/EU

Glass Passivated Chip Junction, Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications, HF Product.

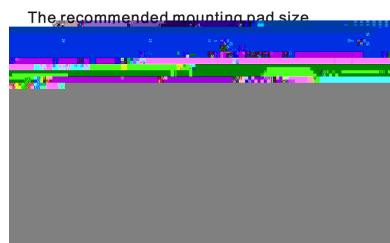
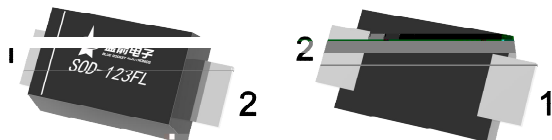
/ Applications

General purpose.

/ Equivalent Circuit



/ Pinning



/ Marking

See Marking Instructions.



/ Absolute Maximum Ratings(Ta=25)

参数 Parameter	符号 Symbol	数值 Rating							单位 Unit
		RS2AW	RS2BW	RS2DW	RS2GW	RS2JW	RS2KW	RS2MW	
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 Ta=125℃	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	50							A
Typical Junction Capacitance at VR=4V, f=1MHz	C_j	30							pF
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	75							℃/W
	$R_{\theta JC}$	22							℃/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							℃

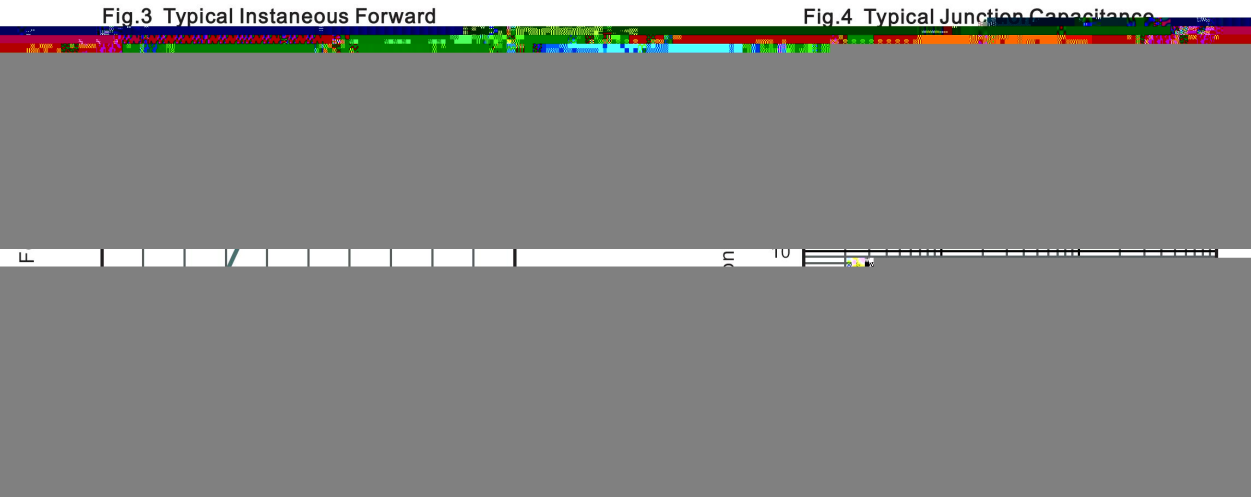
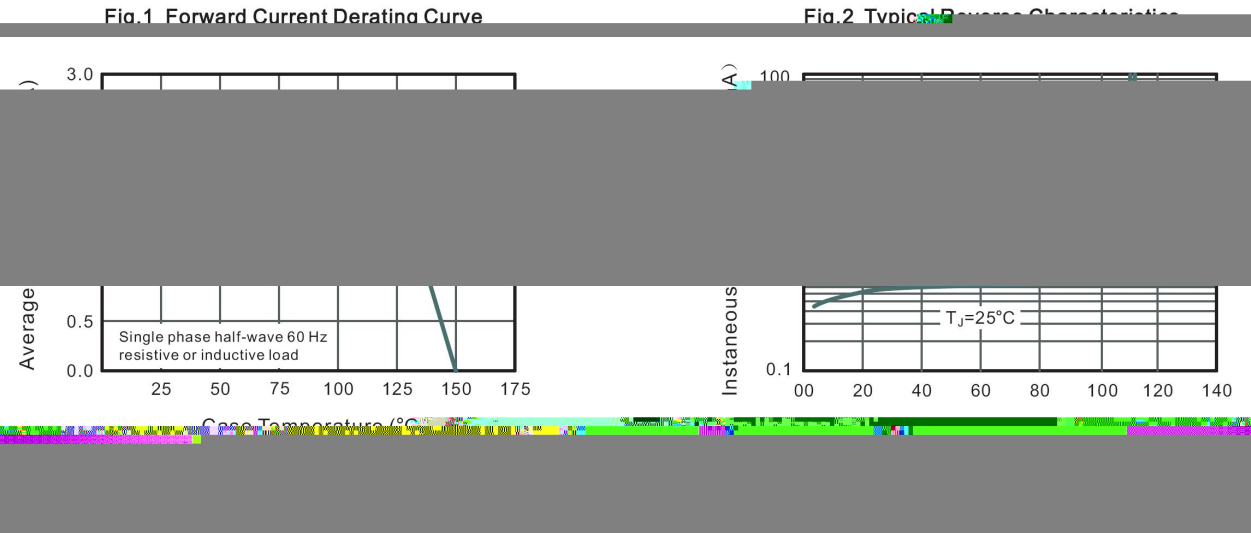
Note:

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

/ Electrical Characteristics(Ta=25)

参数 Parameter	符号 Symbol	测试条件 Test Conditions	数值 Rating							单位 Unit
			RS2AW	RS2BW	RS2DW	RS2GW	RS2JW	RS2KW	RS2MW	
Maximum Forward Voltage	V_F	$I_F=2.0A$	1.3							V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ C$	5.0							μA
		$T_a=125^\circ C$	100							μA
Maximum Reverse Recovery Time	t_{rr}	$I_F=0.5A$ $I_R=1A$ $I_{rr}=0.25A.$	150				250	500		ns

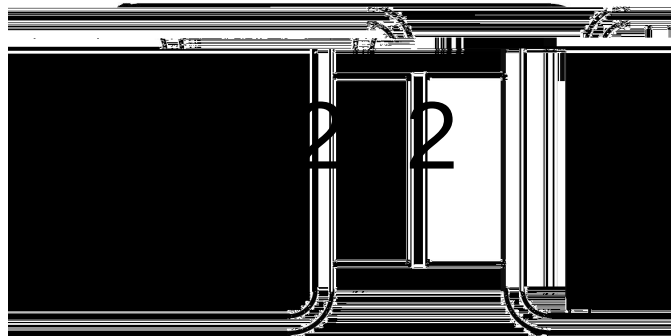
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions



说明：

2F2： 为型号代码

****： 为生产批号追溯码，第 1 个 为年月代码，后面 3 个 为当月小批号代码

Note:

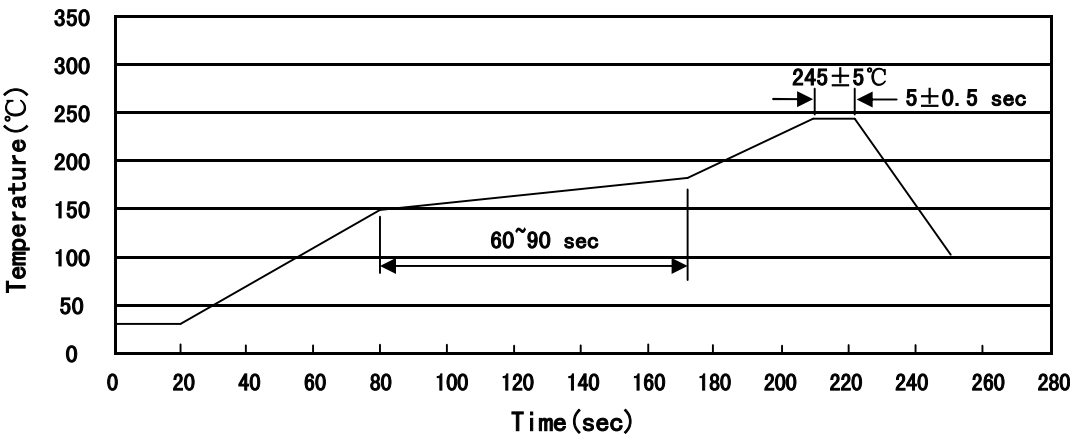
2F2： Product Type Code

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

Marking

Type number	Marking code
RS2AW	2F2
RS2BW	
RS2DW	
RS2GW	
RS2JW	2F5
RS2KW	2F7
RS2MW	

() /



Note:

- | | | | | | |
|---|-------|-----|----|-----------|--|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180°C, Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5°C, Duration:5±0.5sec. |
| 3 | | | 2 | 10°C/sec. | 3. Cooling Speed: 2~10°C/sec. |

/ Resistance to Soldering Heat Test Conditions

260±5°C 10±1 sec. Temp.:260±5°C 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
SOD-123FL	3000	8	24000	6	144000	7" ×8	185X180X105	390X385X205

/ Notices