

1SMA5913A~1SMA5957A

Rev.B Jun.-2021



DATA SHEET

/ Revised record

A	2019-7-4	ALL	SMA-W-1SMA5913A_1SMA5957A		
B	2021-6-7	4/7	b 5 50000 7 70000 340X340X40、350X350X230 336X336X40、380X335X366		

1SMA5913A~1SMA5957A

Rev.B Jun.-2021



DATA SHEET

/ Descriptions

SMA

Zener Diode in a SMA Plastic Package.

/ F

1.5W

3.3~240V

Total power dissipation: Max. 1.5W, Wide zener reverse voltage range 3.3V to 240V, Small plastic package suitable for surface mounted design. HF Product.

General purpose.



/ Marking

See Marking Instructions.

1SMA5913A~1SMA5957A

Rev.B Jun.-2021



DATA SHEET

Parameter	Symbol	Rating	Unit
power dissipation at TL=75°C	P_D	1.5	W
Forward Voltage at IF = 200 mA	VF	1.5	V
Junction Temperature Range	T_J	- 55 to + 150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

Type7 (note1)	Marking (note1)	Zener Voltage Range (note2)				Dynamic Impedance	Reverse Current		Admissible Zener Current
		V_{ZT} (at I_{ZT})			at I_{ZT}	Z_{ZT} (at I_{ZT})	I_R	at V_R	
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max(μ A)	(V)	I_{ZM} (mA)
1SMA5913A	913A	2.97	3.3	3.63	113.6	10	100	1	454
1SMA5914A	914A	3.24	3.6	3.96	104.2	9.0	75	1	416
1SMA5915A	915A	3.51	3.9	4.29	96.1	7.5	25	1	384
1SMA5916A	916A	3.87	4.3	4.73	87.2	6.0	5	1	348
1SMA5917A	917A	4.23	4.7	5.17	79.8	5.0	5	1.5	319
1SMA5918A	918A	4.59	5.1	5.61	73.5	4.0	5	2	294
1SMA5919A	919A	5.04	5.6	6.16	66.9	2.0	5	3	267
1SMA5920A	920A	5.58	6.2	6.82	60.5	2.0	5	4	241
1SMA5921A	921A	6.12	6.8	7.48	55	2.5	5	5.2	220
1SMA5922A	922A	6.75	7.5	8.25	50	3.0	5	6	200
1SMA5923A	923A	7.38	8.2	9.02	45.7	3.5	5	6.5	182
1SMA5924A	924A	8.19	9.1	10.01	41.2	4.0	5		
1SMA5925A									

1SMA5913A~1SMA5957A

Rev.B Jun.-2021

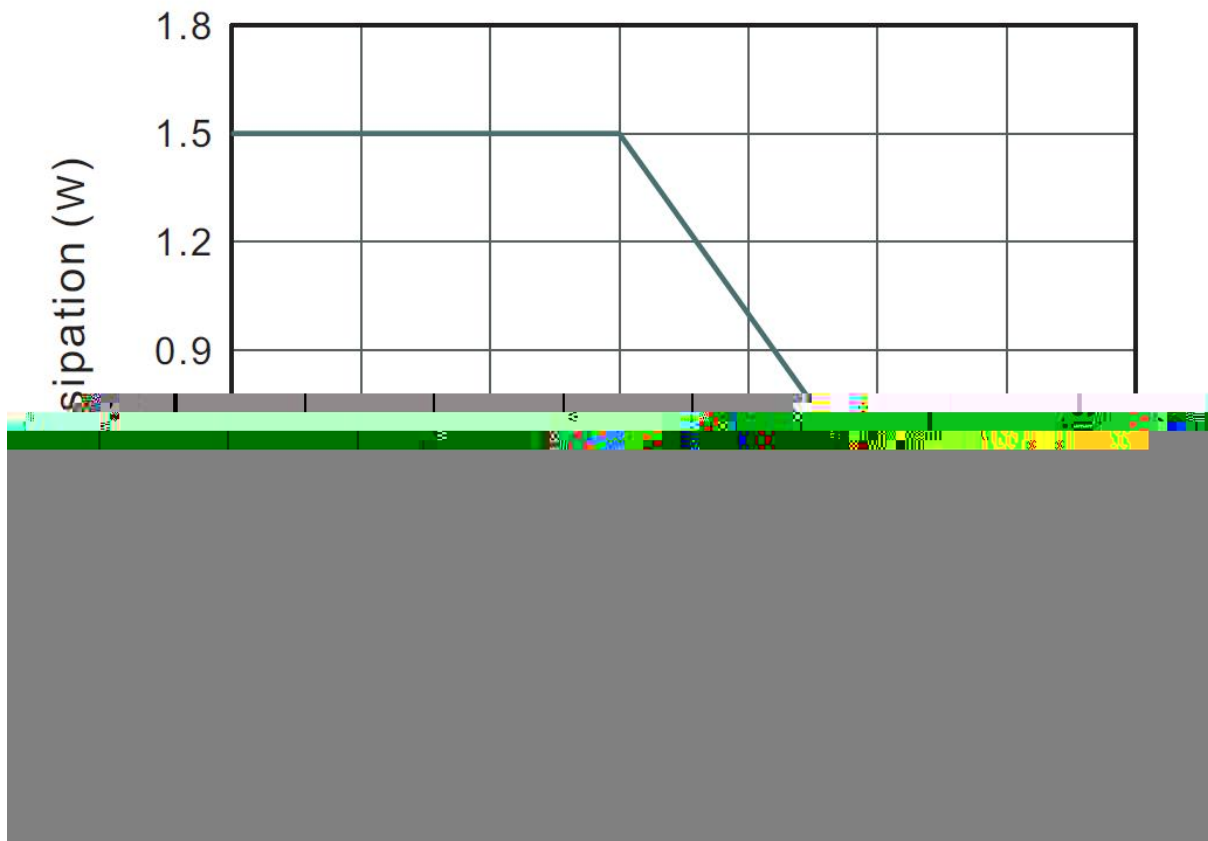


DATA SHEET

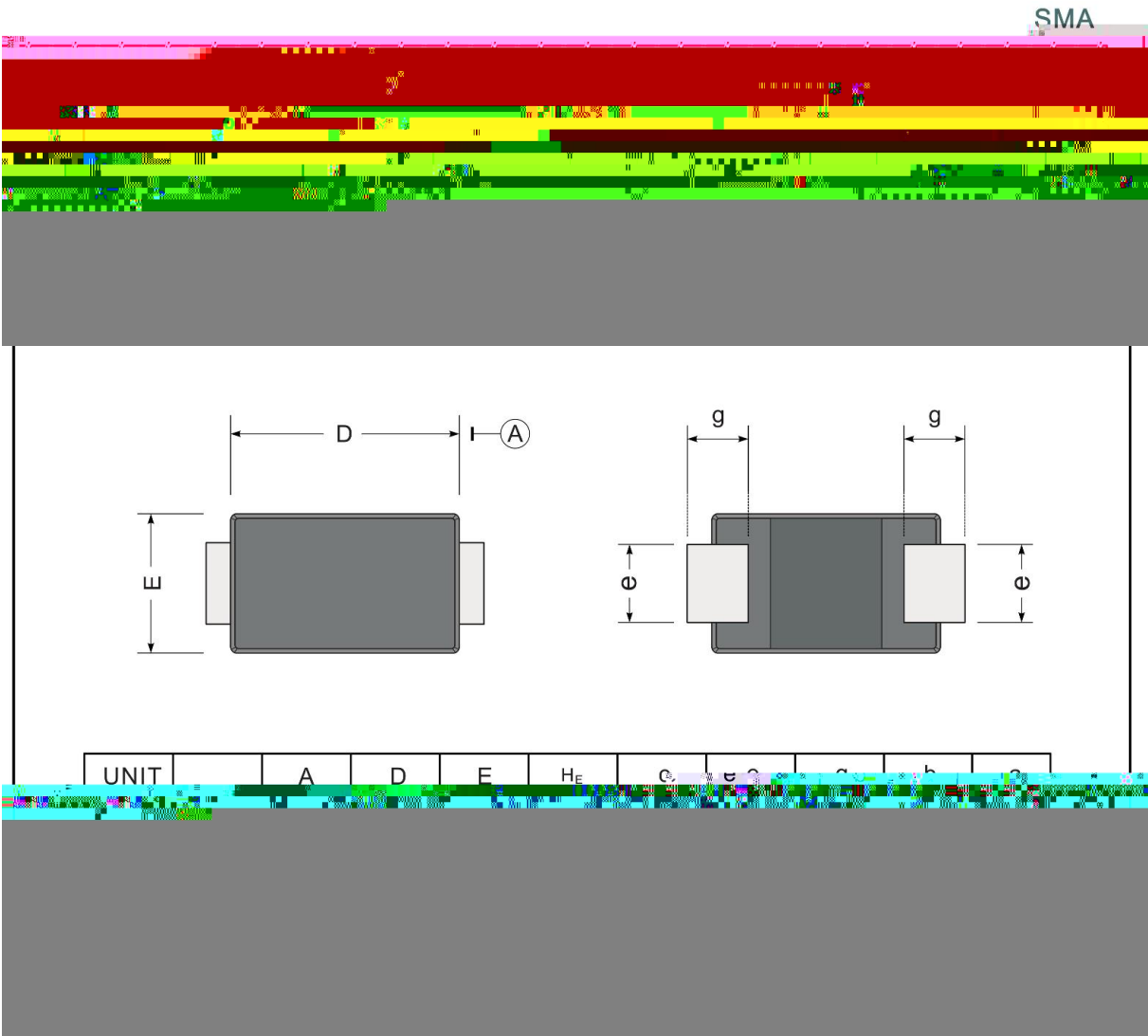
Type (note1)	Marking (note1)	Zener Voltage Range (note2)				Dynamic Impedance	Reverse Current		Admissible Zener Current
		V _{ZT} (at I _{ZT})			at I _{ZT}	Z _{ZT} (at I _{ZT})	I _R	at V _R	
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max(μ a)	(V)	I _{ZM} (mA)
1SMA5931A	931A	16.2	18	19.8	21	12	1	13.7	83
1SMA5932A	932A	18	20	22	19	14	1	15.2	75
1SMA5933A	933A	19.8	22	24.2	17	18	1	16.7	68

/ Electrical Characteristic Curve

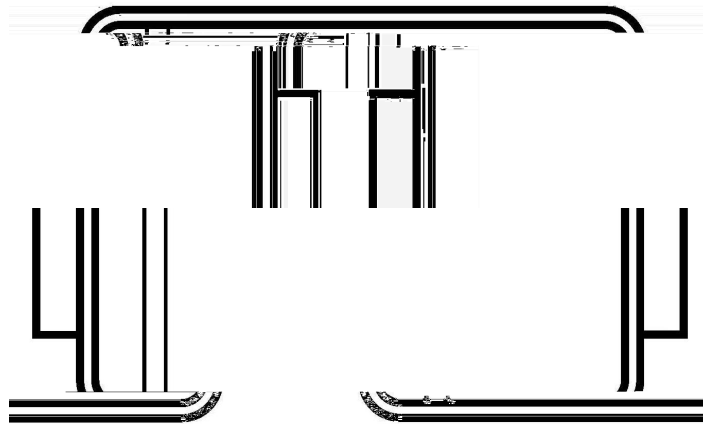
Fig.1 Maximum Continuous Power Derating



/ Package Dimensions



/ Marking Instructions



说明：

913A：为型号代码

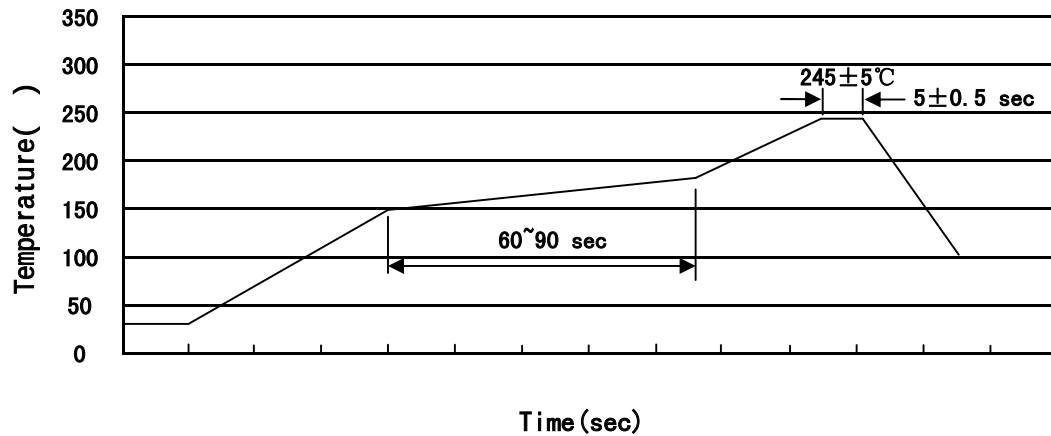
****：为生产批号追溯码，第1个为年月代码，后面3个为当月小批号代码

Note:

913A：



() /



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	Units					Dimension (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	Outer Box
SMA	5000	2	10000	7	70000	13" ×12	336X336X40	380X335X366

/ Notices