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2019-5-8

ALL

<http://www>

1SMA5913B~1SMA5957B

Rev. B Mar.-2021

SMA

Zener Diode in a SMA Plastic Package.

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.

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/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating	Unit
power dissipation at TL=75°C	P _D	1.5	W
Forward Voltage at IF = 200 mA	V _F	1.5	V
Junction to lead thermal resistance	R _{thJL}	25	° CW
Junction Temperature Range	T _J	- 55 to + 150	° C
Storage Temperature Range	T _{STG}	- 55 to + 150	° C

/ Electrical Characteristics(Ta=25)

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)	
1SMA5913B	913B	3.13	3.3	3.47	113.6	10	100	1	454
1SMA5914B	914B	3.42	3.6	3.78	104.2	9.0	75	1	416
1SMA5915B	915B	3.70	3.9	4.10	96.1	7.5	25	1	384
1SMA5916B	916B	4.08	4.3	4.52	87.2	6.0	5	1	348
1SMA5917B	917B	4.46	4.7	4.94	79.8	5.0	5	1.5	319
1SMA5918B	918B	4.84	5.1	5.36	73.5	4.0	5	2	294
1SMA5919B	919B	5.32	5.6	5.88	66.9	2.0	5	3	267
1SMA5920B	920B	5.89	6.2	6.51	60.5	2.0	5	4	241
1SMA5921B	921B	6.46	6.8	7.14	55	2.5	5	5.2	220
1SMA5922B	922B	7.12	7.5	7.88	50	3.0	5	6	200
1SMA5923B	923B	7.79	8.2	8.61	45.7	3.5	5	6.5	182
1SMA5924B	924B	8.60	9.1	9.56	41.2	4.0	5	7	164
1SMA5925B	925B	9.50	10	10.5	37.5	4.5	5	8	150
1SMA5926B	926B	10.4	11	11.6	34	5.5	1	8.4	136
1SMA5927B	927B	11.4	12	12.6	31.2	6.5	1	9	125
1SMA5928B	928B	12.35	13	14.1	28.8	7.0	1	9.9	115
1SMA5929B	929B	13.8	15	15.8	25	9.0	1	11.4	100
1SMA5930B	930B	15.2	16	16.8	23.4	10	1	12.2	93

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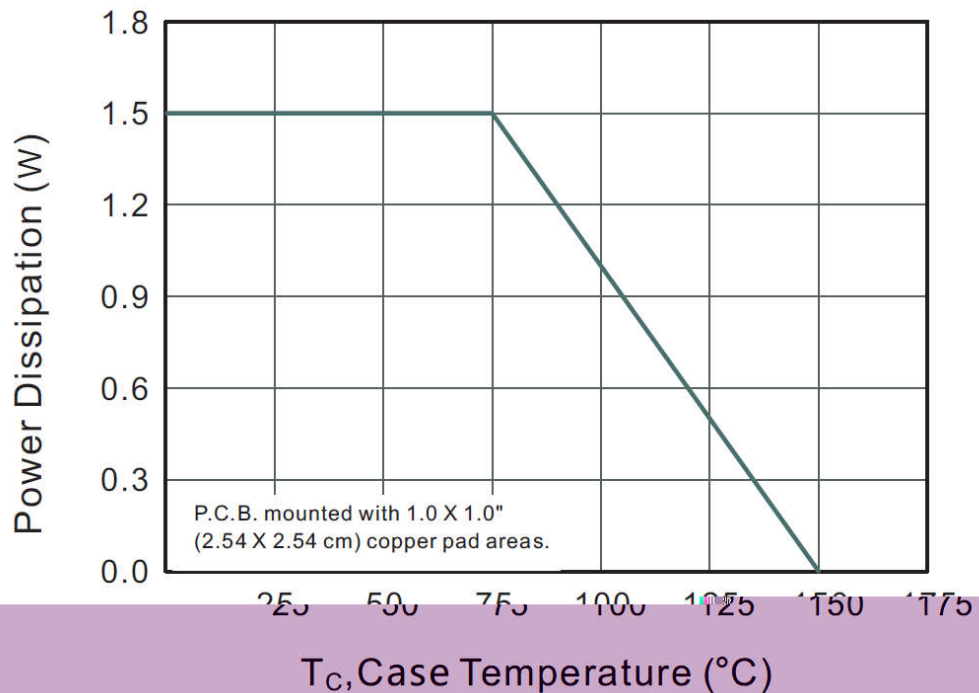


DATA SHEET

Type (note1)	Marking (note1)	Zener Voltage Range (note2)				Dynamic Impedance	Reverse Current		Admissible Zener Current
		V _{ZT} (at I _{ZT})			at I _{ZT}		I _R	at V _R	
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max (μ a)	(V)	I _{ZM} (mA)
1SMA5931B	931B	16.8	18	19.2	21	12	1	13.7	83
1SMA5932B	932B	19.0	20	21.2	19	14	1	15.2	75
1SMA5933B	933B	20.8	22	23.3	17	18	1	16.7	68
1SMA5934B	934B	22.8	24	25.2	16	19	1	18.2	62
1SMA5935B	935B	25.3	27	28.9	14	23	1	20.6	55
1SMA5936B	936B	28.2	30	32.0	12.5	26	1	23	50
1SMA5937B	937B	31.3	33	34.9	11.4	33	1	25	45
1SMA5938B	938B	34.2	36	37.9	10.4	38	1	27	41
1SMA5939B	939B	37.2	39	41.5	9.6	45	1	30	38
1SMA5940B	940B	40.9	43	45.6	8.7	53	1	33	34
1SMA5941B	941B	44.9	47	49.8	8.0	67	1	36	31
1SMA5942B	942B	48.6	51	54.0	7.3	70	1	39	29
1SMA5943B	943B	53.6	56	58.8	6.7	86	1	42	26
1SMA5944B	944B	58.9	62	65.6	6.0	100	1	47	24

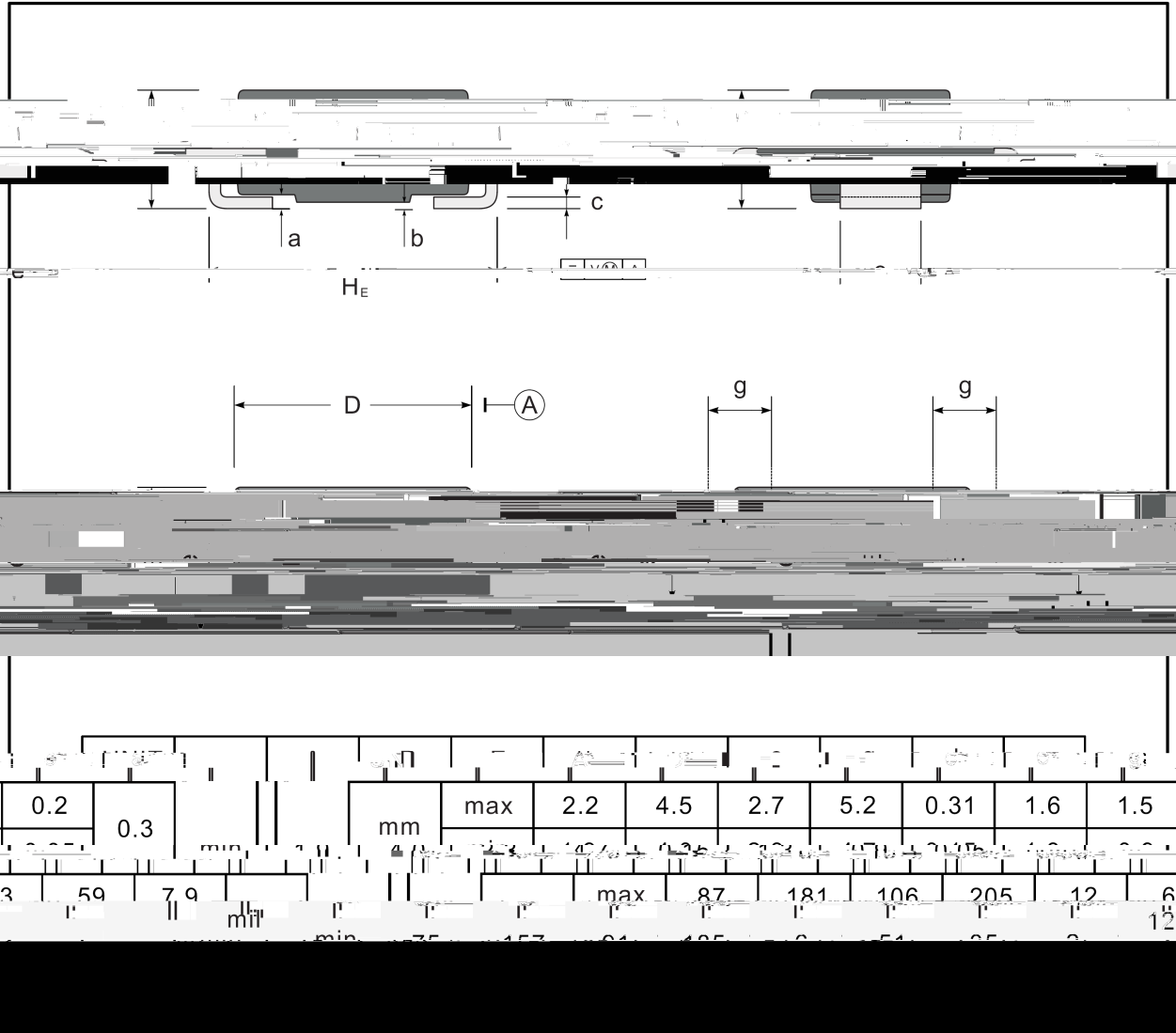
/ Electrical Characteristic Curve

Fig.1 Maximum Continuous Power Derating



/ Package Dimensions

SMA



/ Marking Instructions



913B

1 *

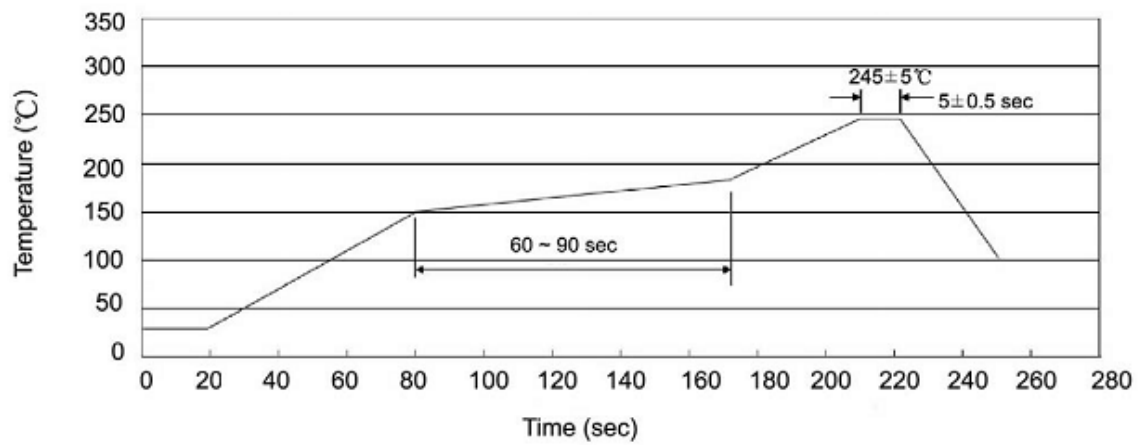
3 *

Note:

913B 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.

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