



SMAG Plastic-Encapsulate Diodes

Feature

- Pd: 1.5W
- Vz: 3.3V-68V
- Range: 5%

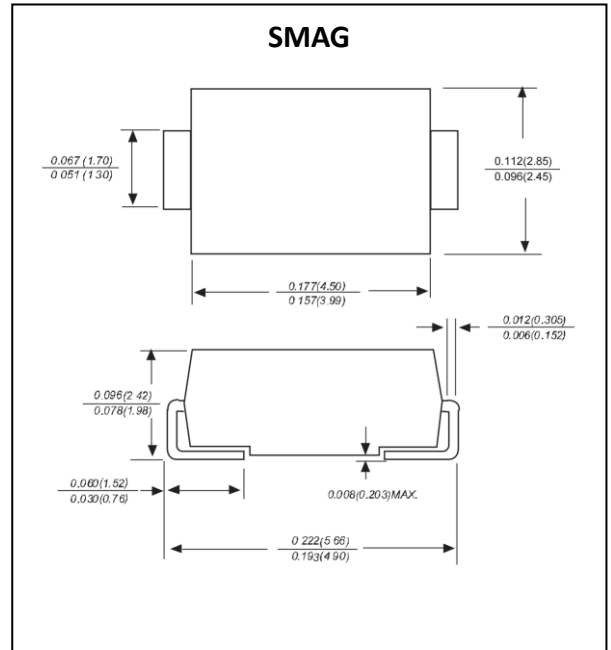
Application

- Stabilizing Voltage

Marking



XX: From 13 To 45



Electrical Characteristics (T_A=25°C unless otherwise noted)

Item	Symbol	Conditions	Max	Unit
Power Dissipation	P _d	T _L =75°C	1.5	W
Zener Current	I _Z		P _V /V _Z	mA
Maximum Junction Temperature	T _J		-65 ~ +150	°C
Storage Temperature Range	T _{STG}		-65 ~ +150	°C
Forward Voltage	V _F	I _F =200mA	1.2	V
Thermal Resistance, Between Junction To Ambient	R _{θJA}		88	°C/W
Thermal Resistance, Between Junction To Lead	R _{θJC}		28	°C/W

Electrical Characteristics (T_A=25°C unless otherwise noted)

Part Number	Zener Voltage				Zener Impedance			Leakage Current		Maximum
	Min.	Nom.	Max.	@ I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK}	@ I _{ZK}	I _R	@ V _R	I _{ZM}
	V			mA	Ω	Ω	mA	uA	V	mA
1SMA5913A	3.13	3.3	3.47	113.6	10	500	1.0	50	1.0	455
1SMA5914A	3.42	3.6	3.78	104.2	9.0	500	1.0	35.5	1.0	417
1SMA5915A	3.70	3.9	4.10	96.1	7.5	500	1.0	12.5	1.0	385
1SMA5916A	4.08	4.3	4.52	87.2	6.0	500	1.0	2.5	1.0	349
1SMA5917A	4.46	4.7	4.94	79.8	5.0	500	1.0	2.5	1.5	319
1SMA5918A	4.84	5.1	5.36	73.5	4.0	350	1.0	2.5	2.0	294
1SMA5919A	5.32	5.6	5.88	66.9	2.0	250	1.0	2.5	3.0	268
1SMA5920A	5.89	6.2	6.51	60.5	2.0	200	1.0	2.5	4.0	242
1SMA5921A	6.46	6.8	7.14	55.1	2.5	200	1.0	2.5	5.2	221
1SMA5922A	7.12	7.5	7.88	50	3.0	400	0.5	2.5	6.0	200
1SMA5923A	7.79	8.2	8.61	45.7	3.5	400	0.5	2.5	6.5	183
1SMA5924A	8.64	9.1	9.56	41.2	4.0	500	0.5	2.5	7.0	165
1SMA5925A	9.5	10	10.5	37.5	4.5	500	0.25	2.5	8.0	150
1SMA5926A	10.45	11	11.55	34.1	5.5	550	0.25	0.5	8.4	136
1SMA5927A	11.4	12	12.6	31.2	6.5	550	0.25	0.5	9.1	125
1SMA5928A	12.35	13	13.65	28.8	7.0	550	0.25	0.5	9.9	115
1SMA5929A	14.25	15	15.75	25	9.0	600	0.25	0.5	11.4	100
1SMA5930A	15.2	16	16.8	23.4	10	600	0.25	0.5	12.2	94
1SMA5931A	17.1	18	18.9	20.8	12	650	0.25	0.5	13.7	83
1SMA5932A	19	20	21	18.7	14	650	0.25	0.5	15.2	75
1SMA5933A	20.9	22	23.1	17	17.5	650	0.25	0.5	16.7	68
1SMA5934A	22.8	24	25.2	15.6	19	700	0.25	0.5	18.2	63
1SMA5935A	25.65	27	28.35	13.9	23	700	0.25	0.5	20.6	56
1SMA5936A	28.5	30	31.5	12.5	26	750	0.25	0.5	22.8	50
1SMA5937A	31.35	33	34.65	11.4	33	800	0.25	0.5	25.1	45
1SMA5938A	34.2	36	37.8	10.4	38	850	0.25	0.5	27.4	42
1SMA5939A	37.05	39	40.95	9.6	45	900	0.25	0.5	29.7	38
1SMA5940A	40.85	43	45.15	8.7	53	950	0.25	0.5	32.7	35
1SMA5941A	44.65	47	49.35	8.0	67	1000	0.25	0.5	35.8	32
1SMA5942A	48.45	51	53.55	7.3	70	1100	0.25	0.5	38.8	29
1SMA5943A	53.2	56	58.8	6.7	86	1300	0.25	0.5	42.6	27
1SMA5944A	58.9	62	65.1	6.0	100	1500	0.25	0.5	47.1	24
1SMA5945A	64.6	68	71.4	5.5	120	1700	0.25	0.5	51.7	22

Typical Characteristics

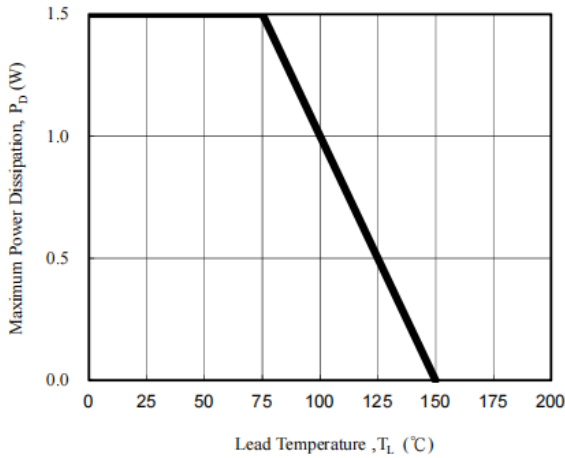


Fig. 1 - Power Temperature Derating Curve

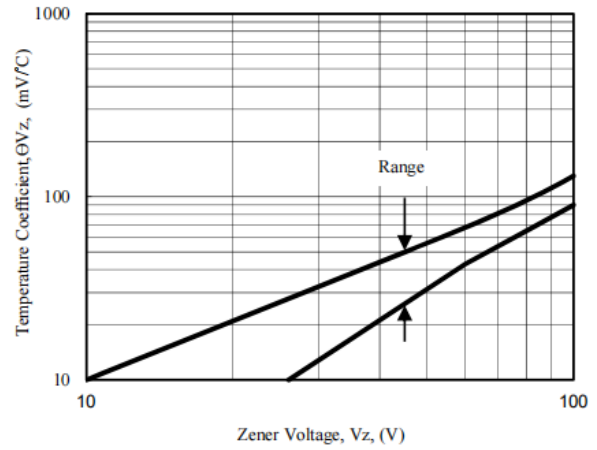


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

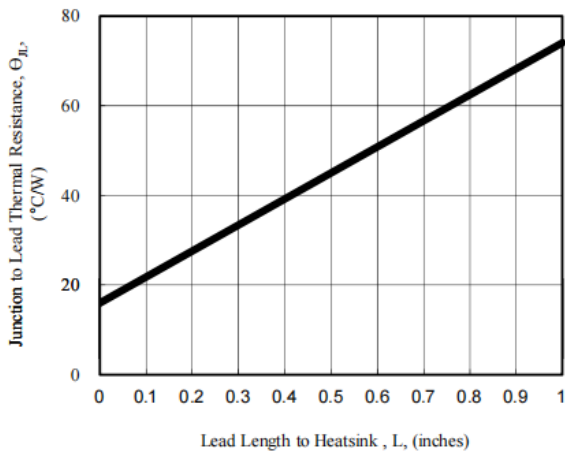


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

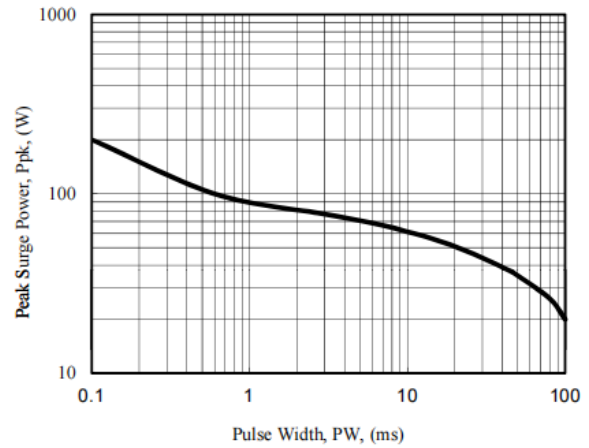


Fig. 4 - Maximum Surge Power

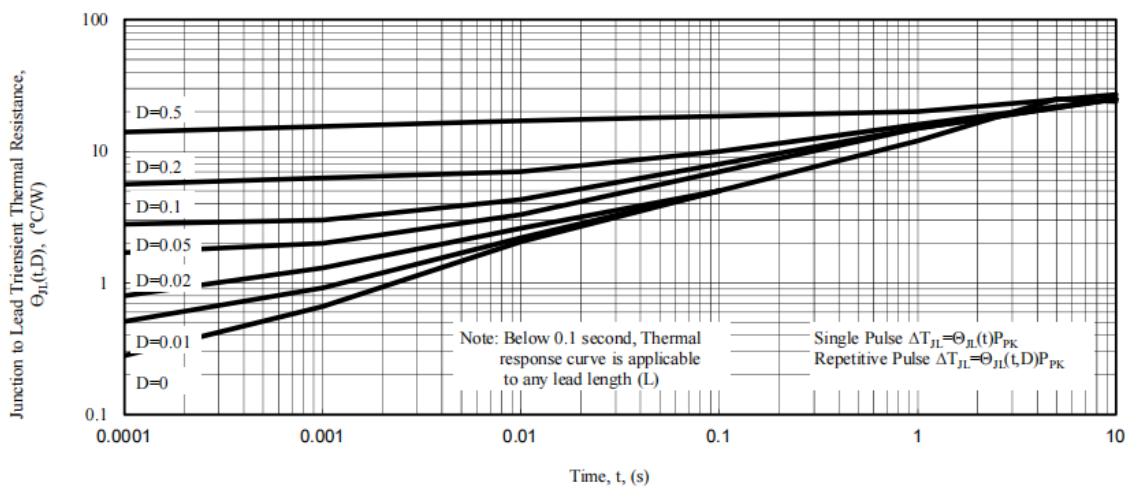


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch

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- 2、 Any and all semiconductor products have certain probability to fail or malfunction, which may result in personal injury, death or property damage. Customer are solely responsible for providing adequate safe measures when design their systems.
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