

DO-214AC(SMA)

Zener Voltage 3.3 ~ 200 V

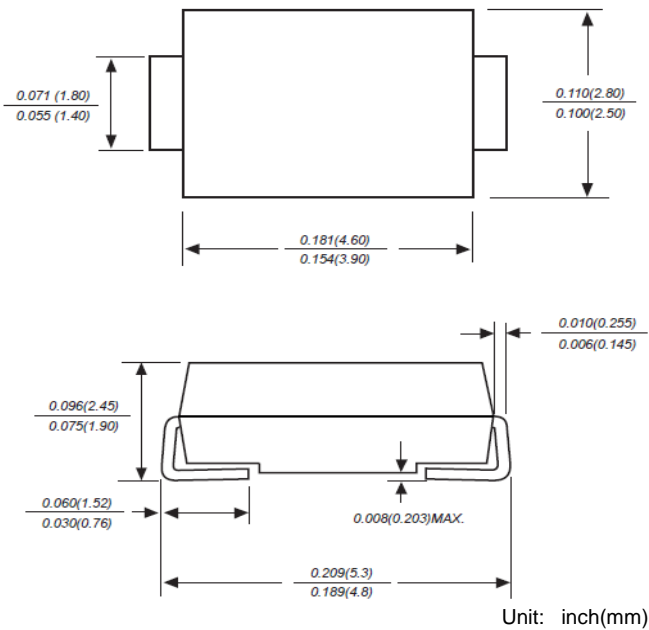
1.5 Watt Power Dissipation

Features

- Glass passivated chip
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- Low reverse leakage
- For use in stabilizing and clipping with high power rating
- RoHS compliant

Mechanical Data

- Case: DO-214AC Molded plastic
- Lead: Solderable per MIL-STD-750, method 2026
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode end
- Mounting position: Any
- System: Accreditation through IATF16949 System
- High reliability grade (AEC Q101 qualified)



Parameter	Symbols	Value	Unit
DC Power dissipation at TL = 75 °C ⁽¹⁾	P _D	1.5	W
Maximum forward voltage at if=200mA	V _F	1.2	V
Junction temperature range	T _J , T _{STG}	-55 to +150	°C
Storage temperature range	T _J , T _{STG}	-55 to +150	°C

Note :

(1) T_L=Lead temperature at 3/8" (9.5mm)from body



Part Number	Device Marking Code	Nominal Zener Voltage @I _T			I _{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
		V _{Z AVE.} (V)	V _{Z MIN.} (V)	V _{Z MAX.} (V)		Z _{ZT MAX.} (Ω) @I _{ZT}	Z _{ZK MAX.} (Ω) @I _{ZK}	I _{ZK} (mA)	I _R (μA)@V _R	V _R (V)	
S-SMA5913A	913A	3.3	3.14	3.47	113.6	10	500.0	1.00	100.0	1.0	455
S-SMA5914A	914A	3.6	3.42	3.78	104.2	9.0	500.0	1.00	100.0	1.0	417
S-SMA5915A	915A	3.9	3.71	4.10	96.1	7.5	500.0	1.00	50.0	1.0	385
S-SMA5916A	916A	4.3	4.09	4.52	87.2	6.0	500.0	1.00	10.0	1.0	349
S-SMA5917A	917A	4.7	4.47	4.94	79.8	5.0	500.0	1.00	10.0	1.5	319
S-SMA5918A	918A	5.1	4.85	5.36	73.5	4.0	350.0	1.00	10.0	2.0	294
S-SMA5919A	919A	5.6	5.32	5.88	66.9	2.0	250.0	1.00	10.0	3.0	268
S-SMA5920A	920A	6.2	5.89	6.51	60.5	2.0	200.0	1.00	10.0	4.0	242
S-SMA5921A	921A	6.8	6.46	7.14	55.1	2.5	200.0	1.00	10.0	5.2	221
S-SMA5922A	922A	7.5	7.13	7.88	50.0	3.0	400.0	0.50	10.0	6.0	200
S-SMA5923A	923A	8.2	7.79	8.61	45.7	3.5	400.0	0.50	10.0	6.5	183
S-SMA5924A	924A	9.1	8.65	9.56	41.2	4.0	500.0	0.50	10.0	7.0	165
S-SMA5925A	925A	10.0	9.50	10.50	37.5	4.5	500.0	0.25	10.0	8.0	150
S-SMA5926A	926A	11.0	10.45	11.55	34.1	5.5	550.0	0.25	0.5	8.4	136
S-SMA5927A	927A	12.0	11.40	12.60	31.2	6.5	550.0	0.25	0.5	9.1	125
S-SMA5928A	928A	13.0	12.35	13.65	28.8	7.0	550.0	0.25	0.5	9.9	115
S-SMA5929A	929A	15.0	14.25	15.75	25.0	9.0	600.0	0.25	0.5	11.4	100
S-SMA5930A	930A	16.0	15.20	16.80	23.4	10.0	600.0	0.25	0.5	12.2	94
S-SMA5931A	931A	18.0	17.10	18.90	20.8	12.0	650.0	0.25	0.5	13.7	83
S-SMA5932A	932A	20.0	19.00	21.00	18.7	14.0	650.0	0.25	0.5	15.2	75
S-SMA5933A	933A	22.0	20.90	23.10	17.0	17.5	650.0	0.25	0.5	16.7	68
S-SMA5934A	934A	24.0	22.80	25.20	15.6	19.0	700.0	0.25	0.5	18.2	63
S-SMA5935A	935A	27.0	25.65	28.35	13.9	23.0	700.0	0.25	0.5	20.6	56
S-SMA5936A	936A	30.0	28.50	31.50	12.5	26.0	750.0	0.25	0.5	22.8	50
S-SMA5937A	937A	33.0	31.35	34.65	11.4	33.0	800.0	0.25	0.5	25.1	45
S-SMA5938A	938A	36.0	34.20	37.80	10.4	38.0	850.0	0.25	0.5	27.4	42
S-SMA5939A	939A	39.0	37.05	40.95	9.6	45.0	900.0	0.25	0.5	29.7	38
S-SMA5940A	940A	43.0	40.85	45.15	8.7	53.0	950.0	0.25	0.5	32.7	35
S-SMA5941A	941A	47.0	44.65	49.35	8.0	67.0	1000.0	0.25	0.5	35.8	32
S-SMA5942A	942A	51.0	48.45	53.55	7.3	70.0	1100.0	0.25	0.5	38.8	29
S-SMA5943A	943A	56.0	53.20	58.80	6.7	86.0	1300.0	0.25	0.5	42.6	27
S-SMA5944A	944A	62.0	58.90	65.10	6.0	100.0	1500.0	0.25	0.5	47.1	24
S-SMA5945A	945A	68.0	64.60	71.40	5.5	120.0	1700.0	0.25	0.5	51.7	22
S-SMA5946A	946A	75.0	71.25	78.75	5.0	140.0	2000.0	0.25	0.5	56.0	20
S-SMA5947A	947A	82.0	77.90	86.10	4.6	160.0	2500.0	0.25	0.5	62.2	18
S-SMA5948A	948A	91.0	86.45	95.55	4.1	200.0	3000.0	0.25	0.5	69.2	16
S-SMA5949A	949A	100.0	95.00	105.00	3.7	250.0	3100.0	0.25	0.5	76.0	15
S-SMA5950A	950A	110.0	104.50	115.50	3.4	300.0	4000.0	0.25	0.5	83.6	14
S-SMA5951A	951A	120.0	114.00	126.00	3.1	380.0	4500.0	0.25	0.5	91.2	13
S-SMA5952A	952A	130.0	123.50	136.50	2.9	450.0	5000.0	0.25	0.5	98.8	12
S-SMA5953A	953A	150.0	142.50	157.50	2.5	600.0	6000.0	0.25	0.5	114.0	10
S-SMA5954A	954A	160.0	152.00	168.00	2.3	700.0	6500.0	0.25	0.5	121.6	9.4
S-SMA5955A	955A	180.0	171.00	189.00	2.1	900.0	7000.0	0.25	0.5	136.8	8.3
S-SMA5956A	956A	200.0	190.00	210.00	1.9	1200.0	8000.0	0.25	0.5	152.0	7.5

Ratings and Characteristics Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

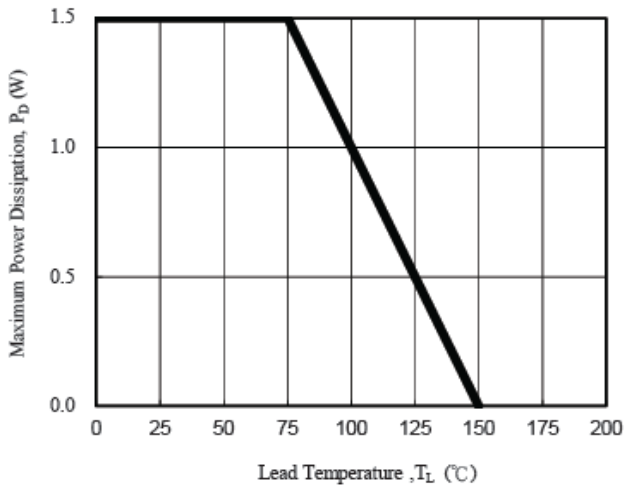


Fig. 1 - Power Temperature Derating Curve

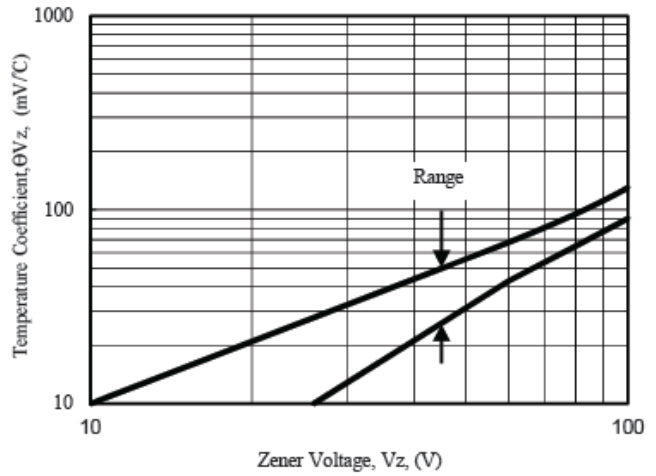


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

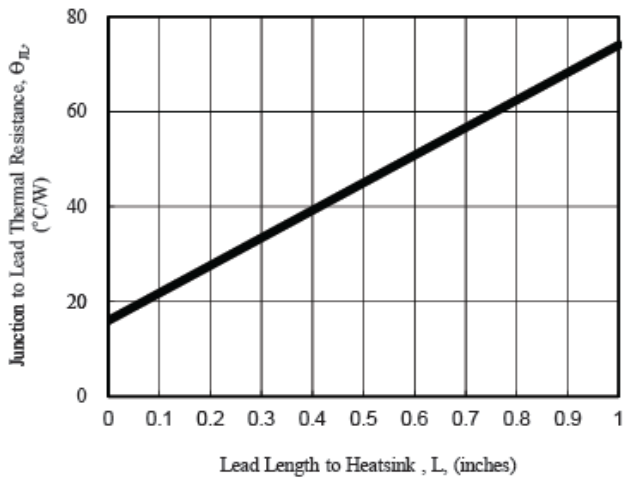


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

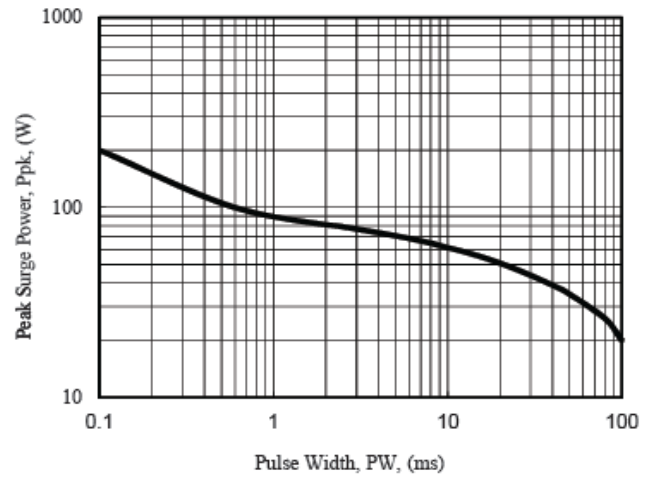


Fig. 4 - Maximum Surge Power

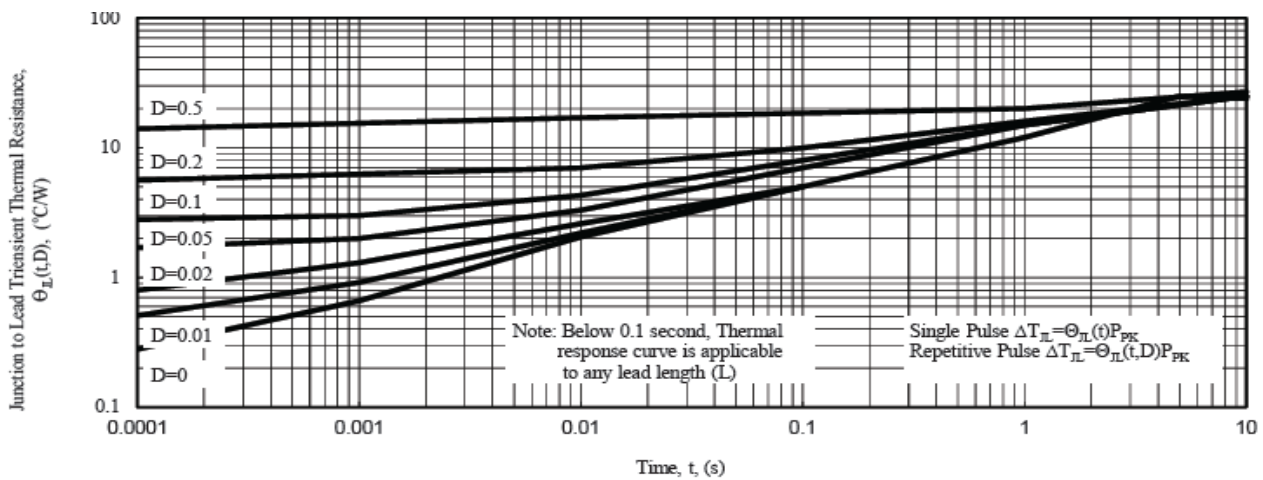


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch

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