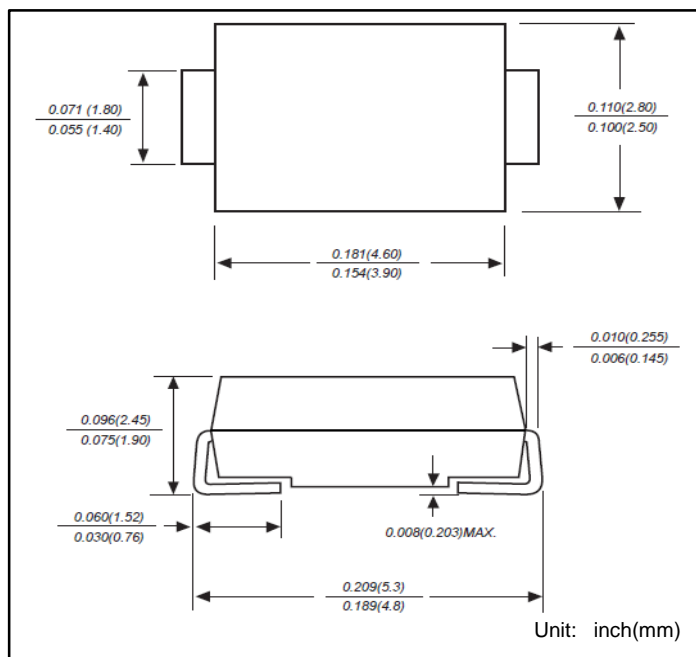


Surface Mount Silicon Zener Diodes

Zener Voltage 3.3 ~ 200 V

1.5 Watt Power Dissipation

## DO-214AC(SMA)



### 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

Parameter	Symbols	Value	Unit
DC Power dissipation at TL = 75 °C <sup>(1)</sup>	P <sub>D</sub>	1.5	W
Maximum forward voltage at if=200mA	V <sub>F</sub>	1.2	V
Junction temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C
Storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C

Note :

( 1 ) T<sub>L</sub>=Lead temperature at 3/8" (9.5mm)from body

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

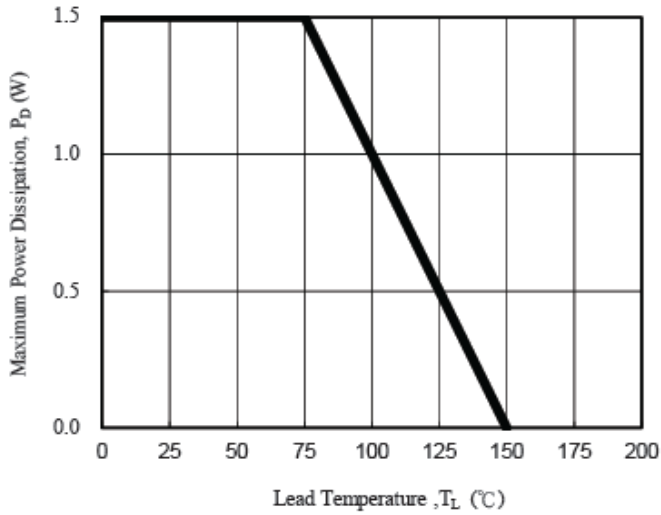


Fig. 1 - Power Temperature Derating Curve

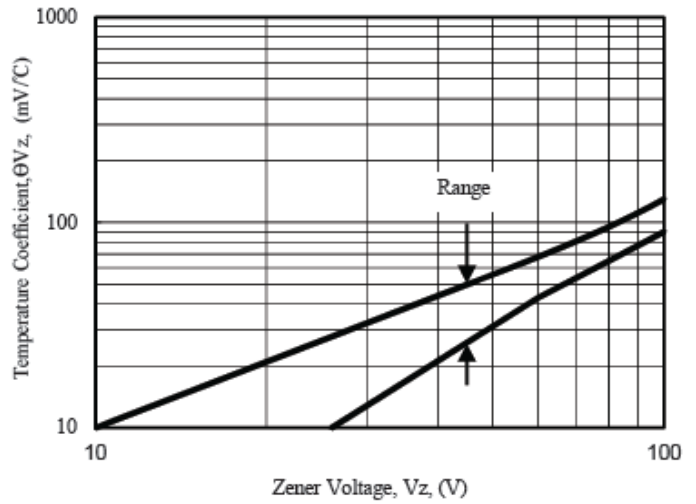


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

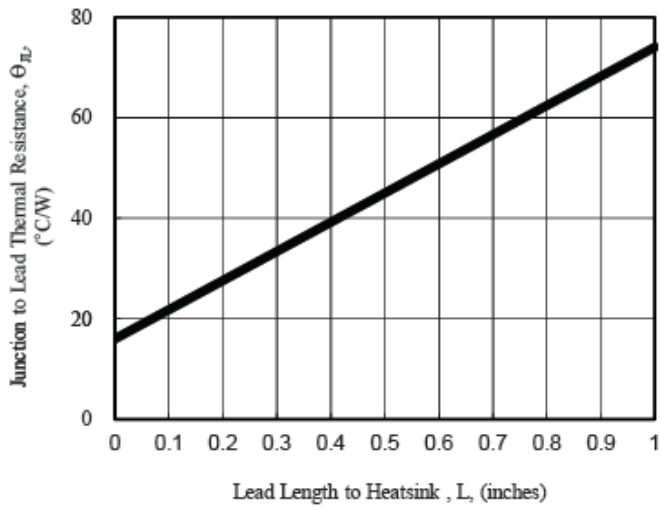


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

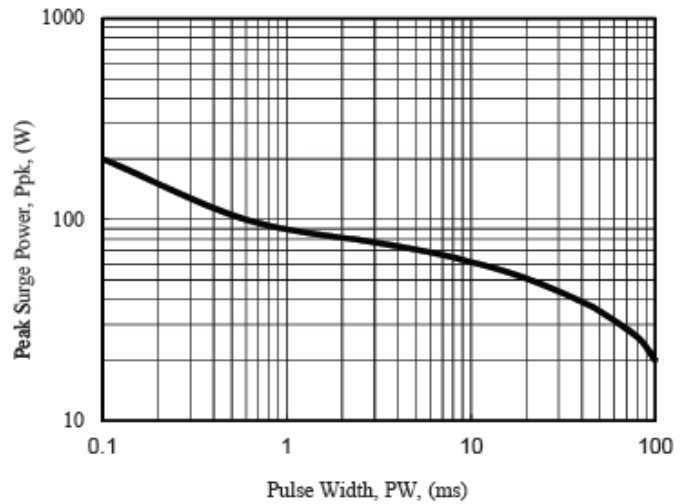


Fig. 4 - Maximum Surge Power

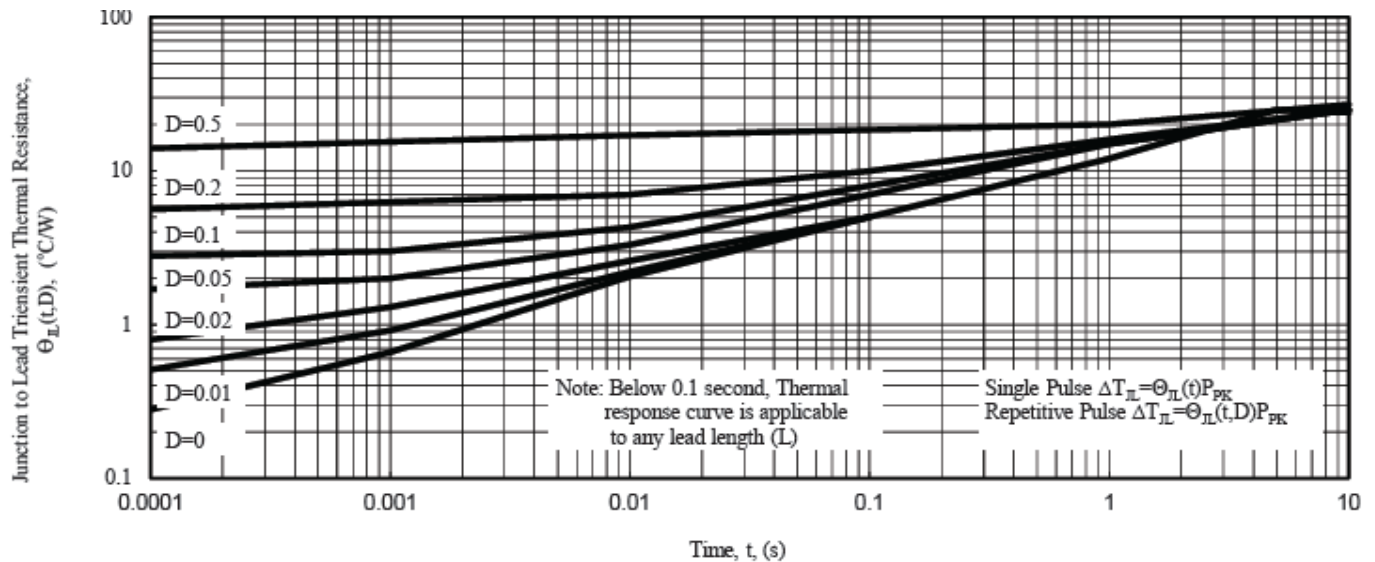


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch

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

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