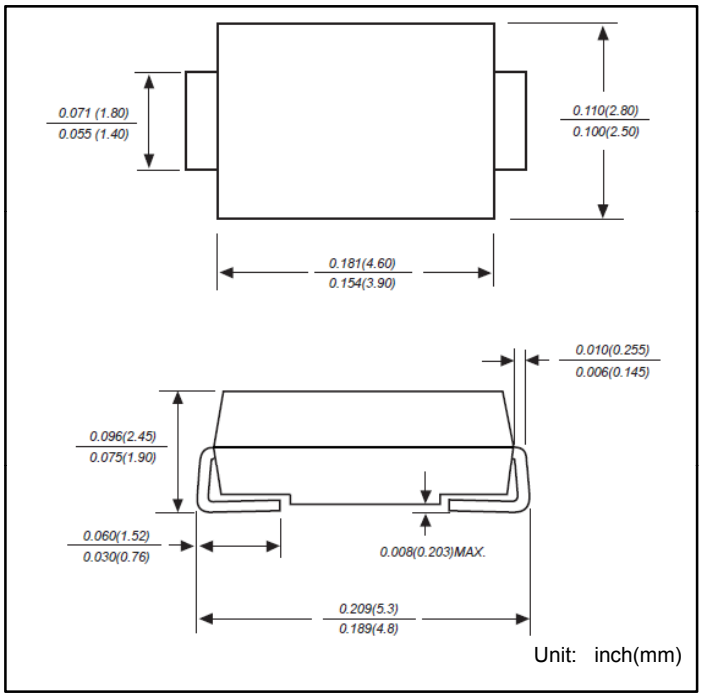
SMA2ZxxA SERIES

Surface Mount SILICON ZENER DIODES
Zener Voltage 3.0 ~ 330 V
2.0 Watt Power Dissipation

DO214AC(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: DO214AC(SMA) 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 = 50 °C(1)	P_D	2.0	W
Maximum forward voltage at if=200mA	V_F	1.2	V
Junction temperature range	T_J , T_{STG}	-55 to +150	℃
Storage temperature range	T_J , T_{STG}	-55 to +150	℃

Note :

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

Ratings and Characteristics Curves (T_A=25℃ unless otherwise noted)

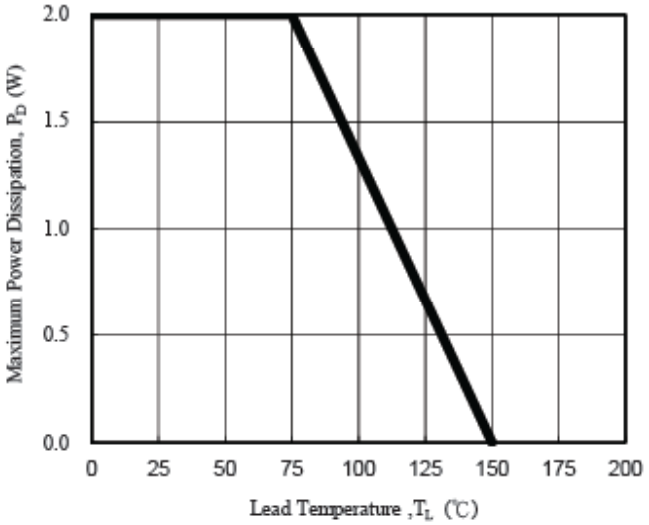


Fig. 1 - Power Temperature Derating Curve

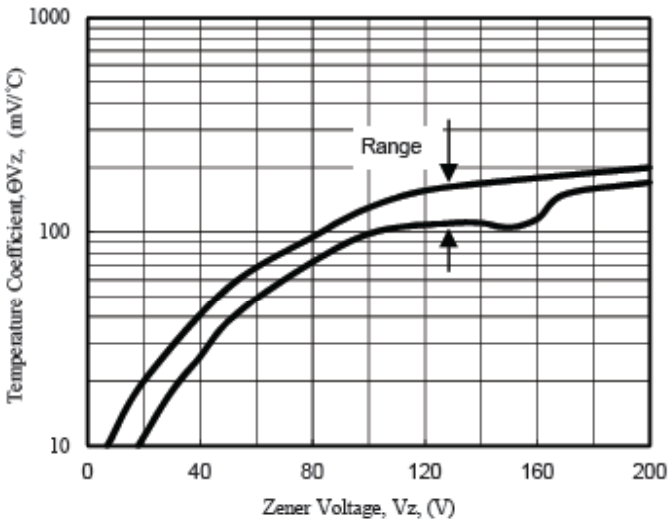


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

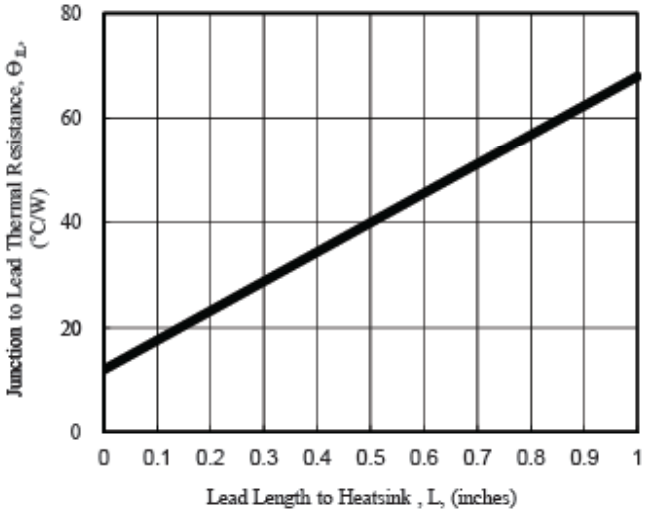


Fig. 3 - Typical Thermal Resistance v.s. Lead Length

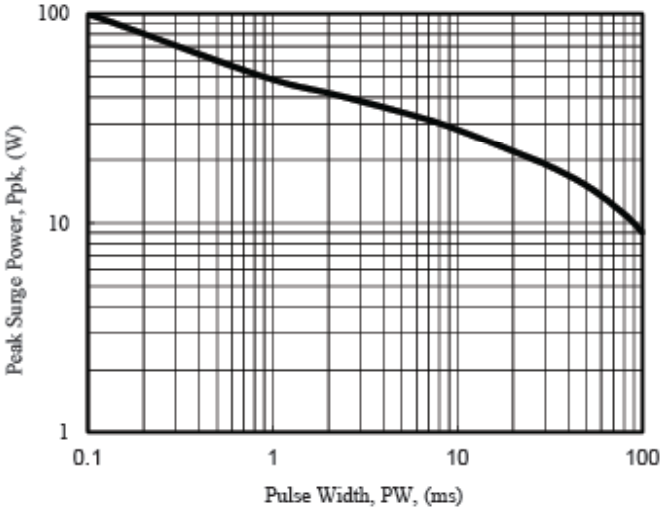


Fig. 4 - Maximum Surge Power

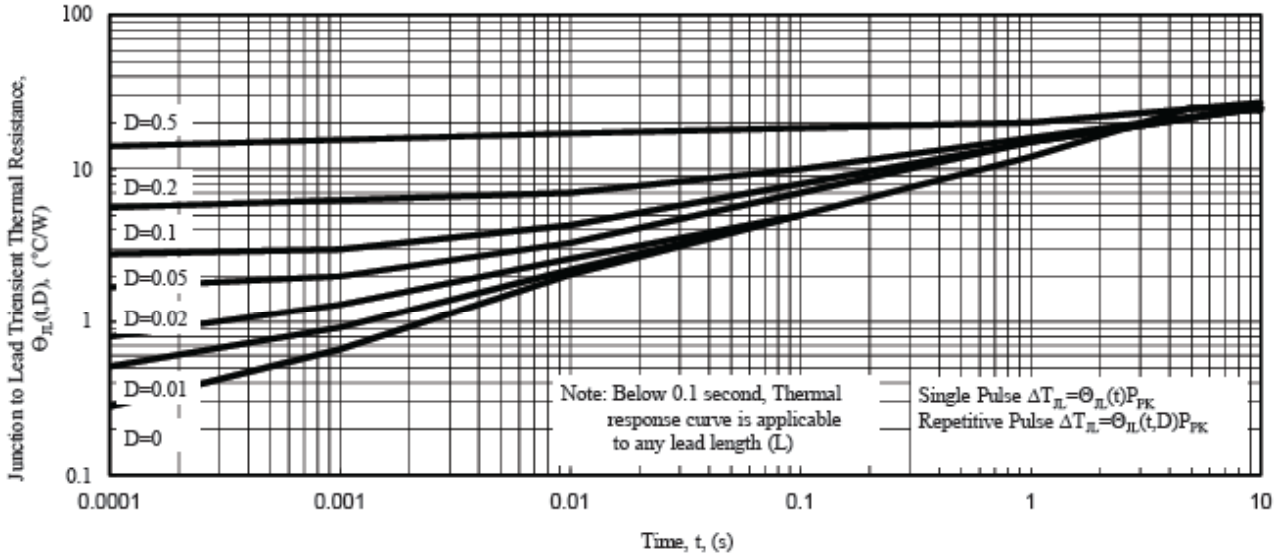


Fig. 5 - Typical Thermal Response L, Lead Length=3/8inch

SMA2ZxxA SERIES

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(uA)@V_R	V_R(V)	I_{ZM} (mA)
SMA2Z3.0A	2H1	3.0	2.85	3.15	160	8.0	400	1.00	100	1.0	603.0
SMA2Z3.3A	2H2	3.3	3.14	3.47	145.0	8.0	400	1.00	100	1.0	548.0
SMA2Z3.6A	2H3	3.6	3.42	3.78	139.0	5.0	400	1.00	100	1.0	502.0
SMA2Z3.9A	2H4	3.9	3.71	4.10	128.0	5.0	400	1.00	50	1.0	464.0
SMA2Z4.3A	2H5	4.3	4.09	4.52	116.0	4.5	400	1.00	50	1.0	421.0
SMA2Z4.7A	2H6	4.7	4.47	4.94	106.0	4.5	550	1.00	10	1.0	385.0
SMA2Z5.1A	2H7	5.1	4.85	5.36	98.0	3.5	600	1.00	10	1.0	354.0
SMA2Z5.6A	2H8	5.6	5.32	5.88	89.5	2.5	500	1.00	10	2.0	323.0
SMA2Z6.2A	2A0	6.2	5.89	6.51	80.5	1.5	700	1.00	10	3.0	292.0
SMA2Z6.8A	2A1	6.8	6.46	7.14	73.5	2.0	700	1.00	10	4.0	266.0
SMA2Z7.5A	2A2	7.5	7.13	7.88	66.5	2.0	700	0.50	10	5.0	242.0
SMA2Z8.2A	2A3	8.2	7.79	8.61	61.0	2.3	700	0.50	10	6.0	220.0
SMA2Z9.1A	2A4	9.1	8.65	9.56	55.0	2.5	700	0.50	10	7.0	200.0
SMA2Z10A	2A5	10.0	9.50	10.50	50.0	3.5	700	0.25	10	7.6	182.0
SMA2Z11A	2A6	11.0	10.45	11.55	45.5	4.0	700	0.25	1.0	8.4	166.0
SMA2Z12A	2A7	12.0	11.40	12.60	41.5	4.5	700	0.25	1.0	9.1	152.0
SMA2Z13A	2A8	13.0	12.35	13.65	38.5	5.0	700	0.25	0.5	9.9	138.0
SMA2Z14A	2A9	14.0	13.30	14.70	35.7	5.5	700	0.25	0.5	10.6	130.0
SMA2Z15A	2B0	15.0	14.25	15.75	33.4	7.0	700	0.25	0.5	11.4	122.0
SMA2Z16A	2B1	16.0	15.20	16.80	31.2	8.0	700	0.25	0.5	12.2	114.0
SMA2Z17A	2B2	17.0	16.15	17.85	29.4	9.0	750	0.25	0.5	13.0	107.0
SMA2Z18A	2B3	18.0	17.10	18.90	27.8	10.0	750	0.25	0.5	13.7	100.0
SMA2Z19A	2B4	19.0	18.05	19.95	26.3	11.0	750	0.25	0.5	14.4	95.0
SMA2Z20A	2B5	20.0	19.00	21.00	25.0	11.0	750	0.25	0.5	15.2	90.0
SMA2Z22A	2B6	22.0	20.90	23.10	22.8	12.0	750	0.25	0.5	16.7	82.0
SMA2Z24A	2B7	24.0	22.80	25.20	20.8	13.0	750	0.25	0.5	18.2	76.0
SMA2Z27A	2B8	27.0	25.65	28.35	18.5	18.0	750	0.25	0.5	20.6	68.0
SMA2Z30A	2B9	30.0	28.50	31.50	16.6	20.0	1000	0.25	0.5	22.5	60.0
SMA2Z33A	2C0	33.0	31.35	34.65	15.1	23.0	1000	0.25	0.5	25.1	55.0
SMA2Z36A	2C1	36.0	34.20	37.80	13.9	25.0	1000	0.25	0.5	27.4	50.0
SMA2Z39A	2C2	39.0	37.05	40.95	12.8	30.0	1000	0.25	0.5	29.7	47.0
SMA2Z43A	2C3	43.0	40.85	45.15	11.6	35.0	1500	0.25	0.5	32.7	43.0
SMA2Z47A	2C4	47.0	44.65	49.35	10.6	40.0	1500	0.25	0.5	35.8	39.0
SMA2Z51A	2C5	51.0	48.45	53.55	9.8	48.0	1500	0.25	0.5	38.8	36.0
SMA2Z56A	2C6	56.0	53.20	58.80	9.0	55.0	2000	0.25	0.5	42.6	32.0
SMA2Z62A	2C7	62.0	58.90	65.10	8.1	60.0	2000	0.25	0.5	47.1	29.0
SMA2Z68A	2C8	68.0	64.60	71.40	7.4	75.0	2000	0.25	0.5	51.7	27.0
SMA2Z75A	2C9	75.0	71.25	78.75	6.7	90.0	2000	0.25	0.5	56.0	24.0
SMA2Z82A	2F0	82.0	77.90	86.10	6.1	100.0	3000	0.25	0.5	62.2	22.0
SMA2Z91A	2F1	91.0	86.45	95.55	5.5	125.0	3000	0.25	0.5	69.2	20.0
SMA2Z100A	2F2	100.0	95.00	105.00	5.0	175.0	3000	0.25	0.5	76.0	18.0
SMA2Z110A	2F3	110.0	104.50	115.50	4.5	250.0	4000	0.25	0.5	83.6	17.0
SMA2Z120A	2F4	120.0	114.00	126.00	4.2	325.0	4500	0.25	0.5	91.2	15.0
SMA2Z130A	2F5	130.0	123.50	136.50	3.8	400.0	5000	0.25	0.5	98.8	14.0
SMA2Z140A	2F6	140.0	133.00	147.00	3.6	500.0	5500	0.25	0.5	106.4	13.0
SMA2Z150A	2F7	150.0	142.50	157.50	3.3	575.0	6000	0.25	0.5	114.0	12.0
SMA2Z160A	2F8	160.0	152.00	168.00	3.1	650.0	6500	0.25	0.5	121.6	11.0
SMA2Z170A	2F9	170.0	161.50	178.50	2.9	675.0	7000	0.25	0.5	130.4	11.0
SMA2Z180A	2G1	180.0	171.00	189.00	2.8	725.0	7000	0.25	0.5	136.8	10.0
SMA2Z190A	2G2	190.0	180.50	199.50	2.6	825.0	8000	0.25	0.5	144.8	10.0
SMA2Z200A	2G3	200.0	190.00	210.00	2.5	1900.0	9990	0.25	0.5	152.0	9.0
SMA2Z220A	2G4	220.0	209.00	231.00	2.0	2000.0	8500	0.25	0.5	167.0	8.0
SMA2Z270A	2G5	270.0	256.50	283.50	1.6	2200.0	8500	0.25	0.5	205.0	6.7
SMA2Z300A	2G6	300.0	285.00	315.00	1.5	2200.0	9000	0.25	0.5	228.0	5.9
SMA2Z330A	2G7	330.0	313.50	346.50	1.4	2300.0	9000	0.25	0.5	250.0	5.4

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Zener Diodes ***category:***

Click to view products by ZHIDE ***manufacturer:***

Other Similar products are found below :

RKZ13B2KG#P1 DL5234B EDZTE6113B 1N4682 1N4693 1N4732A 1N4736A 1N4750A 1N4759ARL 1N5241B 1N5365B 1N5369B 1N747A 1N964B 1N966B 1N968B 1N972B JANS1N4974US JANTX1N5907 1N4692 1N4700 1N4702 1N4704 1N4711 1N4714 1N4745ARL 1N4752ARL 1N4760ARL 1N5221B 1N5242BTR 1N5350B 1N5352B 1N961BRR1 1N964BRL RKZ5.1BKU#P6 3SMAJ5946B-TP 3SMAJ5950B-TP 3SMBJ5925B-TP MMSZ5230BQ-13-F MMSZ5232BQ-13-F BZX84C7V5 3SMAJ5945B-TP 3SMAJ5947B-TP 3SMBJ5941B-TP DL4732A-T3 DZ2S240M0L SMAZ27-TP ZMM5224B-7 RD16UM-T1-A RD39S-T1-A