

**VOLTAGE RANGE: 3.9 - 100V**  
**POWER: 3.0Watts**

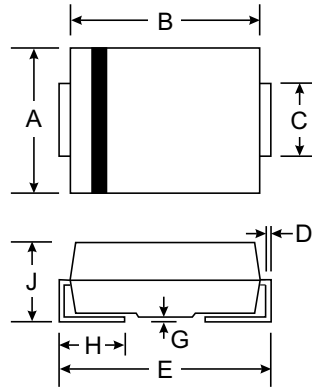
#### Features

- High peak reverse power dissipation
- High reliability
- Low leakage current



#### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

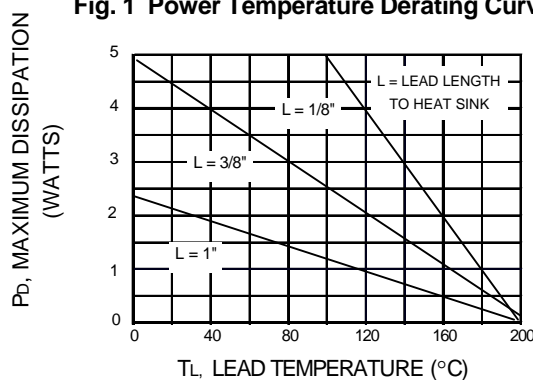


SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

#### Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 75^\circ\text{C}$ (Note1)	$P_D$	3.0	Watts
Maximum Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.5	Volts
Junction Temperature Range	$T_J$	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 150	$^\circ\text{C}$

**Fig. 1 Power Temperature Derating Curve**



#### ELECTRICAL CHARACTERISTICS Rating at = 25 °C ambient temperature unless otherwise specified

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	Vz @ IzT	IzT	ZzT @ IzT	Zzk @ Izk	Izk	IR @ VR		IzM
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
BZG05C3V9	3.9	192	4.5	400	1.0	80	1.0	630
BZG05C4V3	4.3	174	4.5	400	1.0	30	1.0	590
BZG05C4V7	4.7	160	4.0	500	1.0	20	1.0	550
BZG05C5V1	5.1	147	3.5	550	1.0	5.0	1.0	520
BZG05C5V6	5.6	134	2.5	600	1.0	5.0	2.0	480
BZG05C6V2	6.2	121	1.5	700	1.0	5.0	3.0	435
BZG05C6V8	6.8	110	2.0	700	1.0	50	4.0	393
BZG05C7V5	7.5	100	2.0	700	0.5	50	5.0	360
BZG05C8V2	8.2	91	2.3	700	0.5	50	6.0	330
BZG05C9V1	9.1	82	2.5	700	0.5	50	7.0	297
BZG05C10	10	75	3.5	700	0.3	50	7.6	270
BZG05C11	11	68	4.0	700	0.25	50	8.4	225
BZG05C12	12	63	4.5	700	0.25	1.0	9.1	246
BZG05C13	13	58	4.5	700	0.25	0.5	9.1	208
BZG05C14	14	53	5.0	700	0.25	0.5	10.6	193
BZG05C15	15	50	5.5	700	0.25	0.5	11.4	180
BZG05C16	16	47	5.5	700	0.25	0.5	12.2	169
BZG05C17	17	44	6.0	750	0.25	0.5	13.0	159
BZG05C18	18	42	6.0	750	0.25	0.5	13.7	150
BZG05C19	19	40	7.0	750	0.25	0.5	14.4	142
BZG05C20	20	37	7.0	750	0.25	0.5	15.2	135
BZG05C22	22	34	8.0	750	0.25	0.5	16.7	123
BZG05C24	24	31	9.0	750	0.25	0.5	18.2	112
BZG05C27	27	28	10	750	0.25	0.5	20.6	100
BZG05C28	28	27	12	750	0.25	0.5	21.0	96
BZG05C30	30	25	16	1000	0.25	0.5	22.5	90
BZG05C33	33	23	20	1000	0.25	0.5	25.1	82
BZG05C36	36	21	22	1000	0.25	0.5	27.4	75
BZG05C39	39	19	28	1000	0.25	0.5	29.7	69
BZG05C43	43	17	33	1500	0.25	0.5	32.7	63
BZG05C47	47	16	38	1500	0.25	0.5	35.6	57
BZG05C51	51	15	45	1500	0.25	0.5	38.8	53
BZG05C56	56	13	50	2000	0.25	0.5	42.6	48
BZG05C62	62	12	55	2000	0.25	0.5	47.1	44
BZG05C68	68	11	70	2000	0.25	0.5	51.7	40
BZG05C75	75	10	85	2000	0.25	0.5	56.0	36
BZG05C82	82	9.1	95	3000	0.25	0.5	62.2	33
BZG05C91	91	8.2	115	3000	0.25	0.5	69.2	30
BZG05C100	100	7.5	160	3000	0.25	0.5	76.0	27