

VOLTAGE RANGE: 3.3 - 68V
POWER: 1.3 Watts

Features

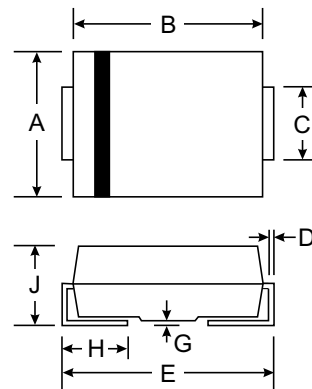
- Complete Voltage Range 3.3 to 68 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

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.)



DO-214AC (SMA)



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		

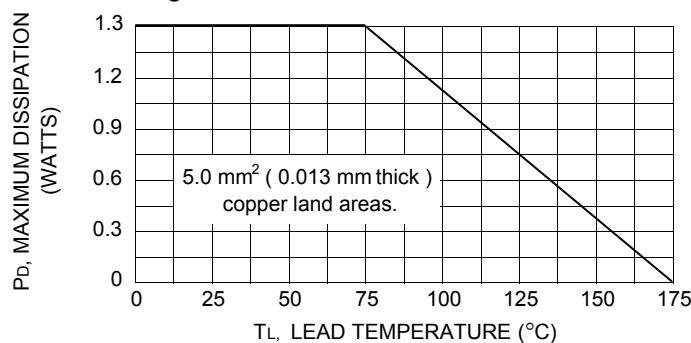
Maximum Ratings @ T_A = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation (Note1)	P _D	1.3	W
Maximum Forward Voltage at I _F = 200 mA	V _F	1.5	V
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R _{θJA}	130	K / W
Junction Temperature Range	T _J	- 55 to + 175	°C
Storage Temperature Range	T _S	- 55 to + 175	°C

Note :

(1) T_i = Lead temperature at 5.0 mm² (0.013 mm thick) copper land area

Fig. 1 POWER TEMPERATURE DERATING CURVE



TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$		I_{ZM}
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μ A)	(V)	(mA)
1SMA5913A	3.3	113.6	10	500	1.0	100	1.0	454
1SMA5914A	3.6	104.2	9.0	500	1.0	75	1.0	416
1SMA5915A	3.9	96.1	7.5	500	1.0	25	1.0	384
1SMA5916A	4.3	87.2	6.0	500	1.0	5.0	1.0	348
1SMA5917A	4.7	79.8	5.0	500	1.0	5.0	1.5	319
1SMA5918A	5.1	73.5	4.0	500	1.0	5.0	2.0	294
1SMA5919A	5.6	66.9	2.0	500	1.0	5.0	3.0	267
1SMA5920A	6.2	60.5	2.0	200	1.0	5.0	4.0	241
1SMA5921A	6.8	55.1	2.5	200	1.0	50	5.2	220
1SMA5922A	7.5	50.0	3.0	400	0.5	50	6.0	200
1SMA5923A	8.2	45.7	3.5	400	0.5	50	6.5	182
1SMA5924A	9.1	41.2	4.0	500	0.5	50	7.0	164
1SMA5925A	10	37.5	4.5	500	0.25	50	8.0	150
1SMA5926A	11	34.1	5.5	550	0.25	50	8.4	136
1SMA5927A	12	31.2	6.5	550	0.25	1.0	9.1	125
1SMA5928A	13	28.8	7.0	550	0.25	1.0	9.9	115
1SMA5929A	15	25.0	9.0	600	0.25	1.0	11.4	100
1SMA5930A	16	23.4	10	600	0.25	1.0	12.2	93
1SMA5931A	18	20.8	12	650	0.25	1.0	13.7	83
1SMA5932A	20	18.7	14	650	0.25	1.0	15.2	75
1SMA5933A	22	17.0	17.5	650	0.25	1.0	16.7	68
1SMA5934A	24	15.6	19	700	0.25	1.0	18.2	62
1SMA5935A	27	13.9	23	700	0.25	1.0	20.6	55
1SMA5936A	30	12.5	26	750	0.25	1.0	22.8	50
1SMA5937A	33	11.4	33	800	0.25	1.0	25.1	45
1SMA5938A	36	10.4	38	850	0.25	1.0	27.4	41
1SMA5939A	39	9.6	45	900	0.25	1.0	29.7	38
1SMA5940A	43	8.7	53	950	0.25	1.0	32.7	34
1SMA5941A	47	8.0	67	1000	0.25	1.0	35.8	31
1SMA5942A	51	7.3	70	1100	0.25	1.0	38.8	29
1SMA5943A	56	6.7	86	1300	0.25	1.0	42.6	26
1SMA5944A	62	6.0	100	1500	0.25	1.0	47.1	24
1SMA5945A	68	5.5	120	1700	0.25	1.0	51.7	22

Note :

(1) Suffix "A" indicates $\pm 10\%$ tolerance, suffix "B" indicates $\pm 5\%$ tolerance.