



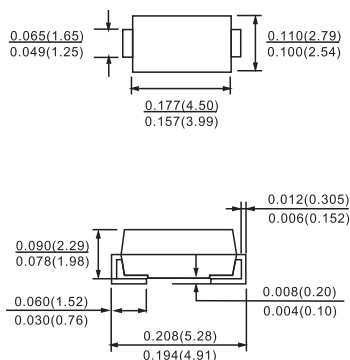
FEATURES :

- * Complete Voltage Range 3.3 to 240 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.060 gram (Approximately)

DO-214AC(SMA)



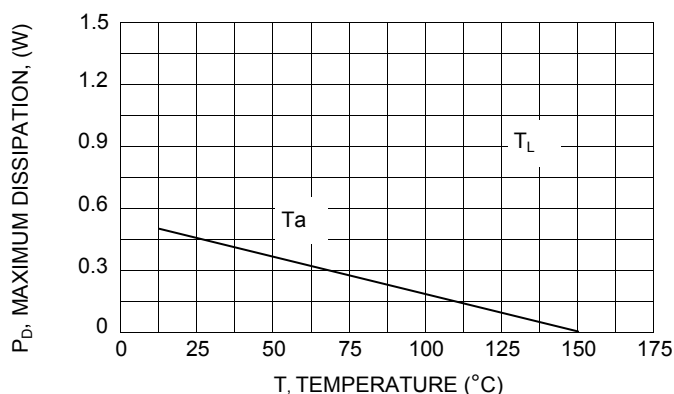
Dimensions in inches and (millimeters)

MAXIMUM RATINGS

Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation @ $T_L = 75^\circ\text{C}$	P_D	1.5	W
Measured zero lead length(1" square copper pad, FR-4 board)		20	mW/°C
Derate above 75 °C			
Thermal Resistance Junction to Lead	$R_{\theta JL}$	50	°C/W
DC Power Dissipation @ $T_a = 25^\circ\text{C}$	P_D	0.5	W
(FR-4 board) Derate above 25 °C		4.0	mW/°C
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	250	°C/W
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.5	V
Operating Junction and Storang Temperature Range	T_J, T_{STG}	- 65 to + 150	°C

Fig. 1 POWER TEMPERATURE DERATING CURVE





TYPE 型号	Zener voltage 齐纳电压		Dynamic resistance 动态阻抗			Maximum reverse current 最大反向电流 T _A =25℃		Maximum regulator current 最大稳压电流	Power dissipation 耗散功率	Package 封装形式
	V _Z @I _{ZT}	I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R @V _R		I _{ZM}	P _d	
	V	mA	Ω	Ω	mA	μA	V	mA	mW	
1SMA5913A	3.3	113.6	10	500	1.0	100	1.0	454	1500	SMA
1SMA5914A	3.6	104.2	9	500	1.0	75	1.0	416	1500	SMA
1SMA5915A	3.9	96.1	7.5	500	1.0	25	1.0	384	1500	SMA
1SMA5916A	4.3	87.2	6	500	1.0	5.0	1.0	348	1500	SMA
1SMA5917A	4.7	79.8	5	500	1.0	5.0	1.5	319	1500	SMA
1SMA5918A	5.1	73.5	4	500	1.0	5.0	2.0	294	1500	SMA
1SMA5919A	5.6	66.9	2	500	1.0	5.0	3.0	267	1500	SMA
1SMA5920A	6.2	60.5	2	200	1.0	5.0	4.0	241	1500	SMA
1SMA5921A	6.8	55.1	2.5	200	1.0	5.0	5.2	220	1500	SMA
1SMA5922A	7.5	50	3	400	0.5	5.0	6.0	200	1500	SMA
1SMA5923A	8.2	45.7	3.5	400	0.5	5.0	6.5	182	1500	SMA
1SMA5924A	9.1	41.2	4	500	0.5	5.0	7.0	164	1500	SMA
1SMA5925A	10	37.5	4.5	500	0.25	5.0	8.0	150	1500	SMA
1SMA5926A	11	34.1	5.5	550	0.25	5.0	8.4	136	1500	SMA
1SMA5927A	12	31.2	6.5	550	0.25	1.0	9.1	125	1500	SMA
1SMA5928A	13	28.8	7	550	0.25	1.0	9.9	115	1500	SMA
1SMA5929A	15	25	9	600	0.25	1.0	11.4	100	1500	SMA
1SMA5930A	16	23.4	10	600	0.25	1.0	12.2	93	1500	SMA
1SMA5931A	18	20.8	12	650	0.25	1.0	13.7	83	1500	SMA
1SMA5932A	20	18.7	14	650	0.25	1.0	15.2	75	1500	SMA
1SMA5933A	22	17	17.5	650	0.25	1.0	16.7	68	1500	SMA
1SMA5934A	24	15.6	19	700	0.25	1.0	18.2	62	1500	SMA
1SMA5935A	27	13.9	23	700	0.25	1.0	20.6	55	1500	SMA
1SMA5936A	30	12.5	26	750	0.25	1.0	22.8	50	1500	SMA
1SMA5937A	33	11.4	33	800	0.25	1.0	25.1	45	1500	SMA
1SMA5938A	36	10.4	38	850	0.25	1.0	27.4	41	1500	SMA
1SMA5939A	39	9.6	45	900	0.25	1.0	29.7	38	1500	SMA
1SMA5940A	43	8.7	53	950	0.25	1.0	32.7	34	1500	SMA
1SMA5941A	47	8	67	1000	0.25	1.0	35.8	31	1500	SMA
1SMA5942A	51	7.3	70	1100	0.25	1.0	38.8	29	1500	SMA
1SMA5943A	56	6.7	86	1300	0.25	1.0	42.6	26	1500	SMA
1SMA5944A	62	6	100	1500	0.25	1.0	47.1	24	1500	SMA
1SMA5945A	68	5.5	120	1700	0.25	1.0	51.7	22	1500	SMA
1SMA5946A	75	5	140	2000	0.25	1.0	56.0	20	1500	SMA
1SMA5947A	82	4.6	160	2500	0.25	1.0	62.2	18	1500	SMA
1SMA5948A	91	4.1	200	3000	0.25	1.0	69.2	16	1500	SMA
1SMA5949A	100	3.7	250	3100	0.25	1.0	76.0	15	1500	SMA
1SMA5950A	110	3.4	300	4000	0.25	1.0	83.6	13	1500	SMA
1SMA5951A	120	3.1	380	4500	0.25	1.0	91.2	12	1500	SMA
1SMA5952A	130	2.9	450	5000	0.25	1.0	98.8	11	1500	SMA
1SMA5953A	150	2.5	600	6000	0.25	1.0	114.0	10	1500	SMA
1SMA5954A	160	2.3	700	6500	0.25	1.0	121.6	9	1500	SMA
1SMA5955A	180	2.1	900	7000	0.25	1.0	136.8	8	1500	SMA
1SMA5956A	200	1.9	1200	8000	0.25	1.0	152.0	7	1500	SMA
1SMA5957A	240	1.5	1600	9000	0.25	1.0	182.4	6	1500	SMA