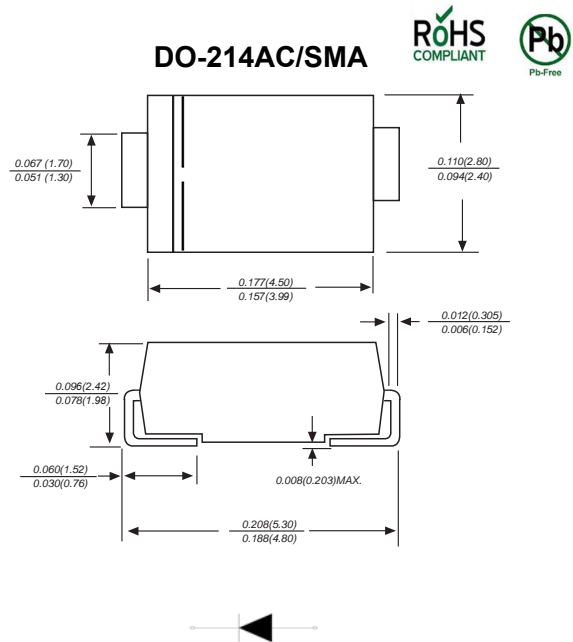


Features

- For surface mounted applications in order to optimize board space
- Low profile package
- Built-in strain relief
- Glass passivated junction
- Low inductance
- Typical I_R less than 5.0 μ A above 11V
- High temperature soldering guaranteed: 260°C / 10 seconds at terminals
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0



Dimensions in inches and (millimeters)

Mechanical data

- Case** : JEDEC DO-214AC/SMA Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.002ounce, 0.07grams
Standard packing : 12mm tape(E1A-481)

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Ratings at 25°C ambient temperature unless otherwise specified.			
MDD Catalog Number	SYMBOLS	VALUE	UNITS
Peak Power Dissipation at $T_A=50^\circ\text{C}$, Derate above 50°C (Note 1)	P_D	1.0 6.67	Watts mW/°C
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) (Note 2)	I_{FSM}	10.0	A
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to + 150	°C

- Notes: 1. Mounted on 5.0mm² (0.013mm thick) land areas.
 2. Measured on 8.3ms Single Half Sine-wave or Equivalent Square Wave, Duty Cycle=4 Pulses Per Minute Maximum.



1SMA4728A~1SMA200A 1.0W Zener Diode

Ratings And Characteristic Curves

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted) VF=1.2V max, IF=200mA for all types.

Part Number	V _Z @ I _{ZT}			Maximum Zener Impedance				Maximum Leakage Current		Marking Code	Package
				Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R			
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V		
1.0 Watt ZENER Diodes -- continued											
1SMA4728	3.3	3.1	3.5	10.0	76.0	400	1.00	100	1.0	728A	SMA
1SMA4729	3.6	3.4	3.8	10.0	69.0	400	1.00	100	1.0	729A	SMA
1SMA4730	3.9	3.7	4.1	9.0	64.0	400	1.00	50	1.0	730A	SMA
1SMA4731	4.3	4.1	4.5	9.0	58.0	400	1.00	10	1.0	731A	SMA
1SMA4732	4.7	4.5	4.9	8.0	53.0	500	1.00	10	1.0	732A	SMA
1SMA4733	5.1	4.8	5.4	7.0	49.0	550	1.00	10	1.0	733A	SMA
1SMA4734	5.6	5.3	5.9	5.0	45.0	600	1.00	10	2.0	734A	SMA
1SMA4735	6.2	5.9	6.5	2.0	41.0	700	1.00	10	3.0	735A	SMA
1SMA4736	6.8	6.5	7.1	3.5	37.0	700	1.00	10	4.0	736A	SMA
1SMA4737	7.5	7.1	7.9	4.0	34.0	700	0.50	10	5.0	737A	SMA
1SMA4738	8.2	7.8	8.6	4.5	31.0	700	0.50	10	6.0	738A	SMA
1SMA4739	9.1	8.6	9.6	5.0	28.0	700	0.50	10	7.0	739A	SMA
1SMA4740	10.0	9.5	10.5	7.0	25.0	700	0.25	10	7.6	740A	SMA
1SMA4741	11.0	10.5	11.6	8.0	23.0	700	0.25	5.0	8.4	741A	SMA
1SMA4742	12.0	11.4	12.6	9.0	21.0	700	0.25	5.0	9.1	742A	SMA
1SMA4743	13.0	12.4	13.7	10.0	19.0	700	0.25	5.0	9.9	743A	SMA
1SMA4744	15.0	14.3	15.8	14.0	17.0	700	0.25	5.0	11.4	744A	SMA
1SMA4745	16.0	15.2	16.8	16.0	15.5	700	0.25	5.0	12.2	745A	SMA
1SMA4746	18.0	17.1	18.9	20.0	14.0	750	0.25	5.0	13.7	746A	SMA
1SMA4747	20.0	19.0	21.0	22.0	12.5	750	0.25	5.0	15.2	747A	SMA
1SMA4748	22.0	20.9	23.1	23.0	11.5	750	0.25	5.0	16.7	748A	SMA
1SMA4749	24.0	22.8	25.2	25.0	10.5	750	0.25	5.0	18.2	749A	SMA
1SMA4750	27.0	25.7	28.4	35.0	9.5	750	0.25	5.0	20.6	750A	SMA
1SMA4751	30.0	28.5	31.5	40.0	8.5	1000	0.25	5.0	22.8	751A	SMA
1SMA4752	33.0	31.4	34.7	45.0	7.5	1000	0.25	5.0	25.1	752A	SMA
1SMA4753	36.0	34.2	37.8	50.0	7.0	1000	0.25	5.0	27.4	753A	SMA
1SMA4754	39.0	37.1	41	60.0	6.5	1000	0.25	5.0	29.7	754A	SMA
1SMA4755	43.0	40.9	45.2	70.0	6.0	1500	0.25	5.0	32.7	755A	SMA
1SMA4756	47.0	44.7	49.4	80.0	5.5	1500	0.25	5.0	35.8	756A	SMA
1SMA4757	51.0	48.5	53.6	95.0	5.0	1500	0.25	5.0	38.8	757A	SMA
1SMA4758	56.0	53.2	58.8	110	4.5	2000	0.25	5.0	42.6	758A	SMA
1SMA4759	62.0	58.9	65.1	125	4.0	2000	0.25	5.0	47.1	759A	SMA
1SMA4760	68.0	64.6	71.4	150	3.7	2000	0.25	5.0	51.7	760A	SMA
1SMA4761	75.0	71.3	78.8	175	3.3	2000	0.25	5.0	56.0	761A	SMA
1SMA4762	82.0	77.9	86.1	200	3.0	3000	0.25	5.0	62.2	762A	SMA
1SMA4763	91.0	86.5	95.6	250	2.8	3000	0.25	5.0	69.2	763A	SMA
1SMA4764	100	95.0	105	350	2.5	3000	0.25	5.0	76.0	100A	SMA
1SMA110A	110	104.5	115.5	450	2.3	4000	0.25	5.0	83.6	110A	SMA
1SMA120A	120	114	126	550	2.0	4500	0.25	5.0	91.2	120A	SMA
1SMA130A	130	123.5	136.5	700	1.9	5000	0.25	5.0	98.8	130A	SMA
1SMA150A	150	142.5	157.5	1000	1.7	6000	0.25	5.0	114.0	150A	SMA
1SMA160A	160	152	168	1100	1.6	6500	0.25	5.0	121.6	160A	SMA
1SMA180A	180	171	189	1200	1.4	7000	0.25	5.0	136.8	180A	SMA
1SMA200A	200	190	210	1500	1.2	8000	0.25	5.0	152.0	200A	SMA



Ratings And Characteristic Curves

FIG.1- POWER TEMPERATURE DERATING CURVE

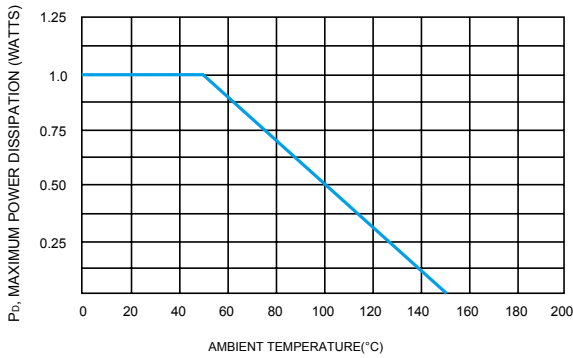


FIG.2- TYPICAL FORWARD CHARACTERISTICS

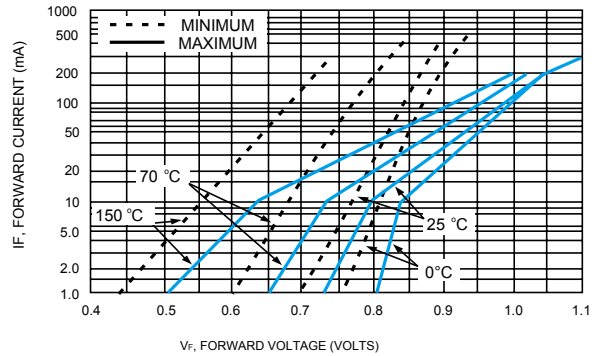


FIG.3- EFFECT OF ZENER CURRENT ON ZENER IMPEDANCE

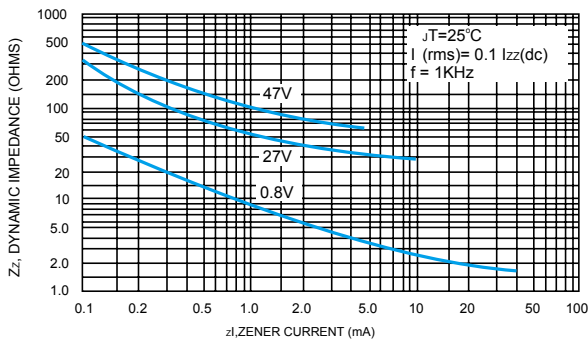


FIG.5- TYPICAL LEAKAGE CURRENT

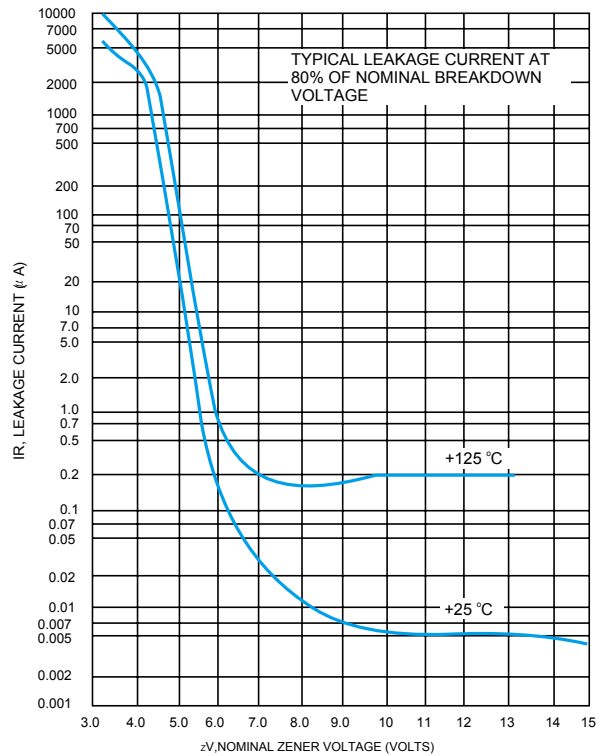


FIG.4- EFFECT OF ZENER VOLTAGE ON ZENER IMPEDANCE

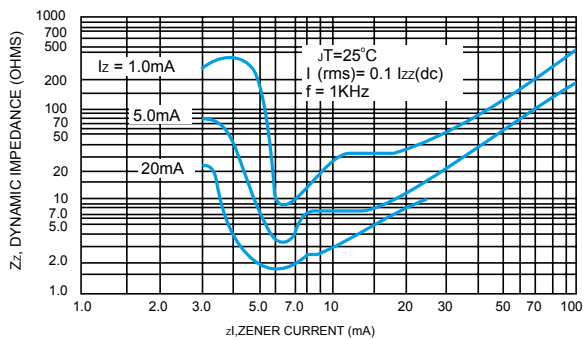


FIG.6- TYPICAL CAPACITANCE versus V_Z

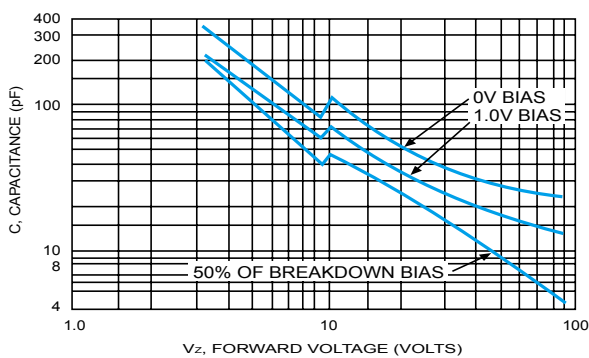


FIG.7- TEMPERATURE COEFFICIENTS

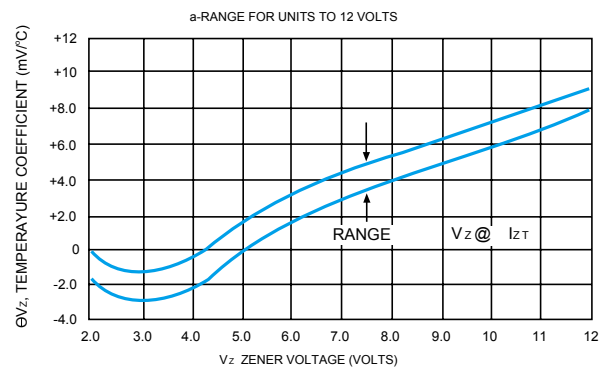




FIG.7- TEMPERATURE COEFFICIENTS

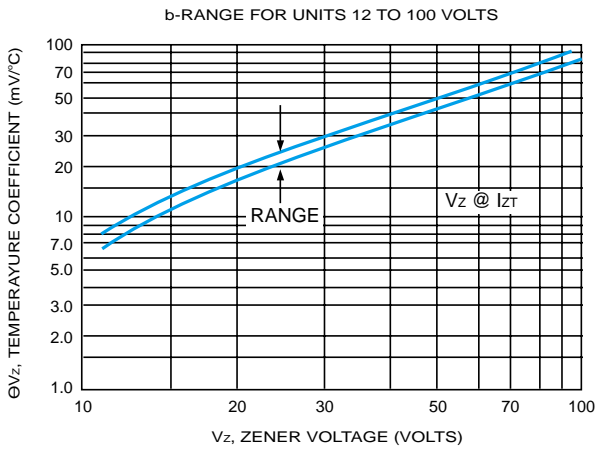


FIG.8- EFFECT OF ZENER CURRENT

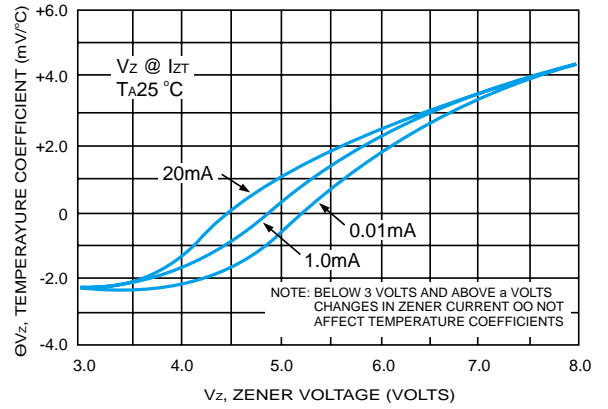
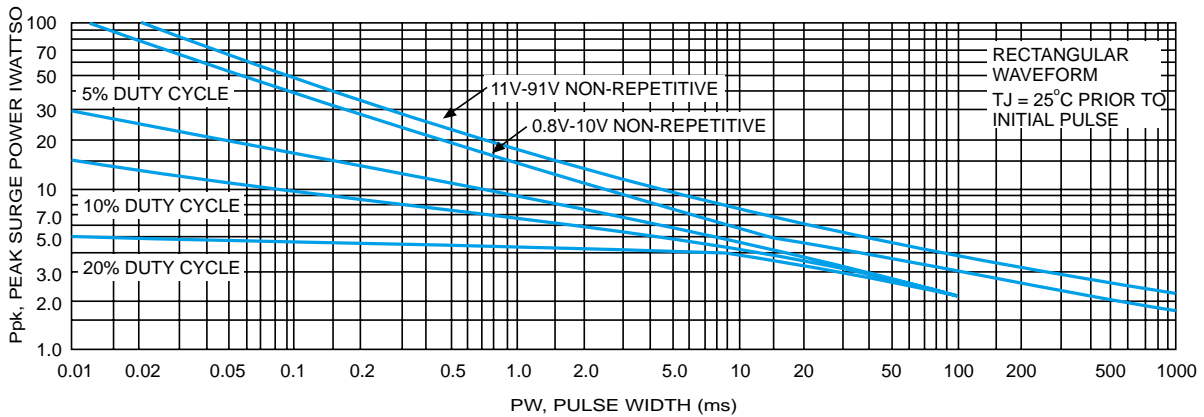


FIG.9- MAXIMUM SURGE POWER



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