



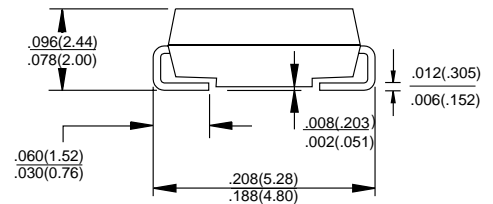
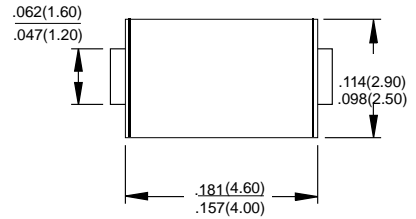
Features

- Glass passivated chip
- Low leakage
- Built-in strain relief
- Low inductance
- High peak reverse power dissipation
- Lead (Pb)-free component
- For use in stabilizing and clipping with high power rating

Mechanical data

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any

SMA/DO-214AC Unit:inch(mm)



Maximum Ratings (TA=25°C unless otherwise noted)			
Parameter	Symbol	Value	UNIT
DC Power Dissipation at T _L = 75°C (Note1)	P _D	1.0	W
Maximum Forward Voltage at I _F = 200 mA	V _F	1.2	V
Junction Temperature Range	T _J	- 55 to + 150	°C
Storage Temperature Range	T _{STG}	- 55 to + 150	°C

Note:

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

DEVICE CHARACTERISTICS

SMA47xxA Series

1.0 Watt Surface Mount Zener Diodes / SMA (DO-214AC)

Part Number	Zener Voltage			Max. Zener Impedance				Reverse Leakage Current		Max. DC Zener Current	Max. Surge Current	Marking
	VZ @ IZT			IZT@ZZT		ZZK@IZK		IR@VR				
	Min. V	Nom. V	Max. V	mA	Ω	Ω	mA	μ A	V	mA	mA	
SMA4735A	5.89	6.2	6.51	41	2	700	1	10	3	146	730	35A
SMA4736A	6.46	6.8	7.14	37	3.5	700	1	5	4	133	660	36A
SMA4737A	7.13	7.5	7.88	34	4	700	0.5	5	5	121	605	37A
SMA4738A	7.79	8.2	8.61	31	4.5	700	0.5	5	6	110	550	38A
SMA4739A	8.65	9.1	9.56	28	5	700	0.5	0.5	7	100	500	39A
SMA4740A	9.5	10	10.5	25	7	700	0.25	0.5	7.6	91	454	40A
SMA4741A	10.45	11	11.55	23	8	700	0.25	0.5	8.4	83	414	41A
SMA4742A	11.4	12	12.6	21	9	700	0.25	0.5	9.1	76	380	42A
SMA4743A	12.35	13	13.65	19	10	700	0.25	0.5	9.9	69	344	43A
SMA4744A	14.25	15	15.75	17	14	700	0.25	0.5	11.4	61	305	44A
SMA4745A	15.2	16	16.8	15.5	16	700	0.25	0.5	12.2	57	285	45A
SMA4746A	17.1	18	18.9	14	20	750	0.25	0.5	13.7	50	250	46A
SMA4747A	19	20	21	12.5	22	750	0.25	0.5	15.2	45	225	47A
SMA4748A	20.9	22	23.1	11.5	23	750	0.25	0.5	16.7	41	205	48A
SMA4749A	22.8	24	25.2	10.5	25	750	0.25	0.5	18.2	38	190	49A
SMA4750A	25.65	27	28.35	9.5	35	750	0.25	0.5	20.6	34	170	50A
SMA4751A	28.5	30	31.5	8.5	40	1000	0.25	0.5	22.8	30	150	51A
SMA4752A	31.35	33	34.65	7.5	45	1000	0.25	0.5	25.1	27	135	52A
SMA4753A	34.2	36	37.8	7	50	1000	0.25	0.5	27.4	25	125	53A
SMA4754A	37.05	39	40.95	6.5	60	1000	0.25	0.5	29.7	23	115	54A
SMA4755A	40.85	43	45.15	6	70	1500	0.25	0.5	32.7	22	110	55A
SMA4756A	44.65	47	49.35	5.5	80	1500	0.25	0.5	35.8	19	95	56A
SMA4757A	48.45	51	53.55	5	95	1500	0.25	0.5	38.8	18	90	57A
SMA4758A	53.2	56	58.8	4.5	110	2000	0.25	0.5	42.6	16	80	58A
SMA4759A	58.9	62	65.1	4	125	2000	0.25	0.5	47.1	14	70	59A
SMA4760A	64.6	68	71.4	3.7	150	2000	0.25	0.5	51.7	13	65	60A
SMA4761A	71.25	75	78.78	3.3	175	2000	0.25	0.5	56	12	60	61A
SMA4762A	77.9	82	86.1	3	200	3000	0.25	0.5	62.2	11	55	62A
SMA4763A	86.45	91	95.55	2.8	250	3000	0.25	0.5	69.2	10	50	63A
SMA4764A	95	100	105	2.5	350	3000	0.25	0.5	76	9	45	64A
SZ1110A	104.5	110	115.5	2.3	450	4000	0.25	0.5	83.6	8.6	40	11Z
SZ1120A	114	120	126	2	550	4500	0.25	0.5	91.2	7.8	37	12Z
SZ1130A	123.5	130	136.5	1.9	700	5000	0.25	0.5	98.8	7	34	13Z
SZ1150A	142.5	150	157.5	1.7	1000	6000	0.25	0.5	114	6.4	30	15Z
SZ1160A	152	160	168	1.6	1100	6500	0.25	0.5	121.6	5.8	28	16Z
SZ1180A	171	180	189	1.4	1200	7000	0.25	0.5	136.8	5.2	25	18Z
SZ1200A	190	200	210	1.2	1900	9990	0.25	0.5	152	4.7	22	20Z
SZ1220A	209	220	231	1	1600	8000	0.25	0.5	167.2	4	20	22Z
SZ1240A	228	240	252	0.9	1800	8500	0.25	0.5	182.4	3.8	19	24Z
SZ1250A	237.5	250	262.5	0.9	2000	9000	0.25	0.5	190	3.6	18	25Z
SZ1370A	256.5	270	283.5	0.8	2100	9000	0.25	0.5	205	3.3	16	27Z
SZ1300A	285	300	315	0.8	2300	9500	0.25	0.5	228	3	15	30Z
SZ1330A	313.5	330	346.5	0.7	2500	9500	0.25	0.5	250.2	2.7	13	33Z

- Note:** (1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$
(2) The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method.

DEVICE CHARACTERISTICS

SMA47xxA Series

Rating and Characteristics Curves

Fig. 1 - Power Temperature Derating Curve

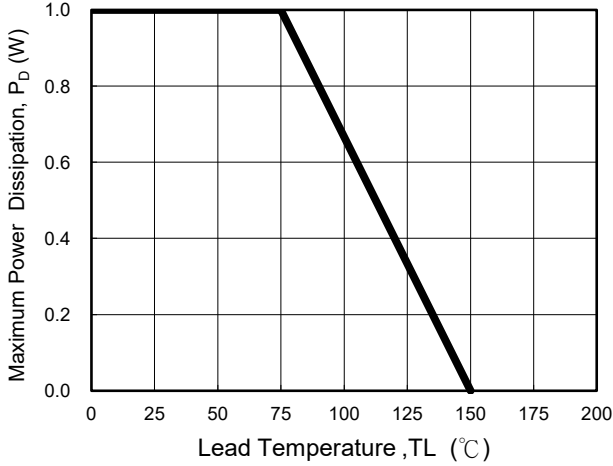


Fig. 2 - Temperature Coefficients v.s. Zener Voltage

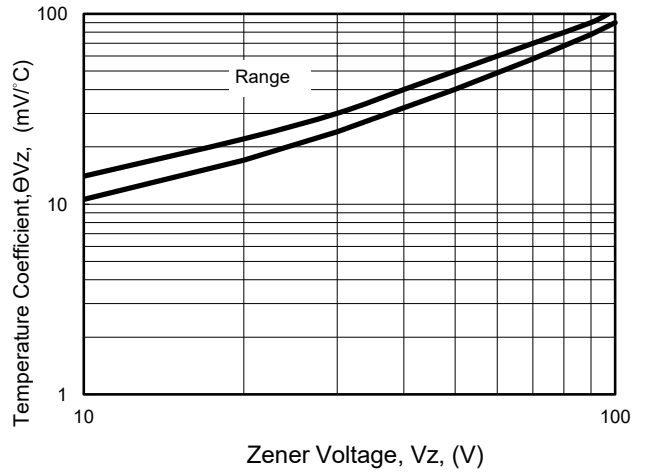


Fig. 3 - Maximum Surge Power

