

# SMAJ4728A - SMAJ4776A

## ZENER DIODES

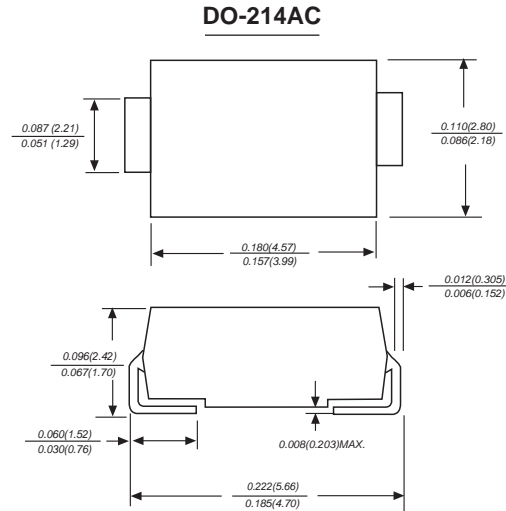
$V_z$  : 3.3 - 300 Volts       $P_D$  : 1 Watts

### FEATURES

- ◇ Silicon planar power zener diodes
- ◇ For use in stabilizing and clipping circuits with high power rating.
- ◇ Standard zener voltage tolerance is  $\pm 10\%$ . Add suffix "A" for  $\pm 5\%$  tolerance. Other zener voltage and tolerances are available upon request.

### MECHANICAL DATA

- ◇ Case: DO-214AC
- ◇ Terminals: Solderable per MIL-STD-202, method 208
- ◇ Polarity: Cathode band
- ◇ Marking: Type number
- ◇ Weight: 0.058 gram



Dimensions in inches and (millimeters)

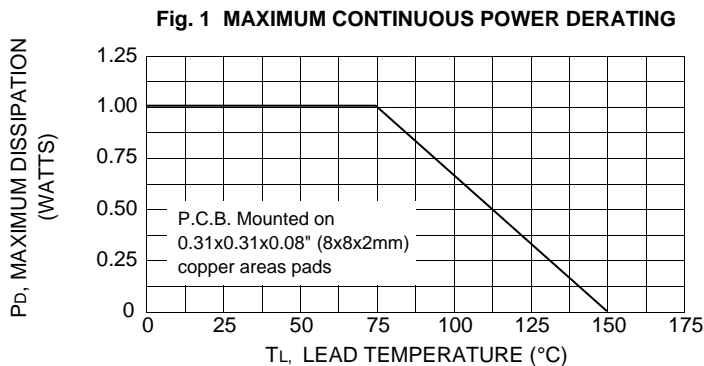
### MAXIMUM RATINGS

Rating at 25°C ambient temperature unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at $T_L = 75^\circ\text{C}$ (Note1)	$P_D$	1.0	W
Maximum Forward Voltage at $I_F = 200\text{ mA}$	$V_F$	1.2	V
Junction Temperature Range	$T_J$	- 55 to + 150	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 55 to + 150	$^\circ\text{C}$

#### Note :

(1) P.C.B. Mounted on 0.31x0.31x0.08" (8x8x2mm) copper areas pad



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## ELECTRICAL CHARACTERISTICS (Ta = 25 °C unless otherwise specified)

Type	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	Vz <sup>(1)</sup> @ IZT	IzT	ZzT @ IZT	Zzk @ Izk	Izk	Ir @ VR	IzM	IRM <sup>(2)</sup>	
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mApk)
SMAJ4728A	3.3	76.0	10	400	1.0	100	1.0	276	1380
SMAJ4729A	3.6	69.0	10	400	1.0	100	1.0	252	1260
SMAJ4730A	3.9	64.0	9.0	400	1.0	50	1.0	234	1190
SMAJ4731A	4.3	58.0	9.0	400	1.0	10	1.0	217	1070
SMAJ4732A	4.7	53.0	8.0	500	1.0	10	1.0	193	970
SMAJ4733A	5.1	49.0	7.0	550	1.0	10	1.0	178	890
SMAJ4734A	5.6	45.0	5.0	600	1.0	10	2.0	162	810
SMAJ4735A	6.2	41.0	2.0	700	1.0	10	3.0	146	730
SMAJ4736A	6.8	37.0	3.5	700	1.0	10	4.0	133	660
SMAJ4737A	7.5	34.0	4.0	700	0.5	10	5.0	121	605
SMAJ4738A	8.2	31.0	4.5	700	0.5	10	6.0	110	550
SMAJ4739A	9.1	28.0	5.0	700	0.5	10	7.0	100	500
SMAJ4740A	10	25.0	7.0	700	0.25	10	7.6	91	454
SMAJ4741A	11	23.0	8.0	700	0.25	5.0	8.4	83	414
SMAJ4742A	12	21.0	9.0	700	0.25	5.0	9.1	76	380
SMAJ4743A	13	19.0	10	700	0.25	5.0	9.9	69	344
SMAJ4744A	15	17.0	14	700	0.25	5.0	11.4	61	305
SMAJ4745A	16	15.5	16	700	0.25	5.0	12.2	57	285
SMAJ4746A	18	14.0	20	750	0.25	5.0	13.7	50	250
SMAJ4747A	20	12.5	22	750	0.25	5.0	15.2	45	225
SMAJ4748A	22	11.5	23	750	0.25	5.0	16.7	41	205
SMAJ4749A	24	10.5	25	750	0.25	5.0	18.2	38	190
SMAJ4750A	27	9.5	35	750	0.25	5.0	20.6	34	170
SMAJ4751A	30	8.5	40	1000	0.25	5.0	22.8	30	150
SMAJ4752A	33	7.5	45	1000	0.25	5.0	25.1	27	135
SMAJ4753A	36	7.0	50	1000	0.25	5.0	27.4	25	125
SMAJ4754A	39	6.5	60	1000	0.25	5.0	29.7	23	115
SMAJ4755A	43	6.0	70	1500	0.25	5.0	32.7	22	110
SMAJ4756A	47	5.5	80	1500	0.25	5.0	35.8	19	95
SMAJ4757A	51	5.0	95	1500	0.25	5.0	38.8	18	90
SMAJ4758A	56	4.5	110	2000	0.25	5.0	42.6	16	80
SMAJ4759A	62	4.0	125	2000	0.25	5.0	47.1	14	70
SMAJ4760A	68	3.7	150	2000	0.25	5.0	51.7	13	65
SMAJ4761A	75	3.3	175	2000	0.25	5.0	56.0	12	60
SMAJ4762A	82	3.0	200	3000	0.25	5.0	62.2	11	55
SMAJ4763A	91	2.8	250	3000	0.25	5.0	69.2	10	50
SMAJ4764A	100	2.5	350	3000	0.25	5.0	76.0	9.0	45
SMAJ4765A	110	2.3	450	4000	0.25	5.0	83.6	8.6	40
SMAJ4766A	120	2.0	550	4500	0.25	5.0	91.2	7.8	37
SMAJ4767A	130	1.9	700	5000	0.25	5.0	98.8	7.0	34
SMAJ4768A	150	1.7	1000	6000	0.25	5.0	114.0	6.4	30
SMAJ4769A	160	1.6	1100	6500	0.25	5.0	121.6	5.8	28
SMAJ4770A	180	1.4	1200	7000	0.25	5.0	136.8	5.2	25
SMAJ4771A	200	1.2	1900	9990	0.25	5.0	152.0	4.7	22
SMAJ4772A	220	1.0	1600	8000	0.25	5.0	167.2	4.0	20
SMAJ4773A	240	0.93	1800	8500	0.25	5.0	182.4	3.8	18.5
SMAJ4774A	250	0.90	2000	9000	0.25	5.0	190	3.6	18
SMAJ4775A	270	0.82	2100	9000	0.25	5.0	205	3.3	16.5
SMAJ4776A	300	0.75	2300	9500	0.25	5.0	228	3.0	15

**Notes :**

(1) Surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on IZT per JEDEC Method