

**VOLTAGE RANGE: 3.3V - 100V**  
**POWER: 1.0Watts**

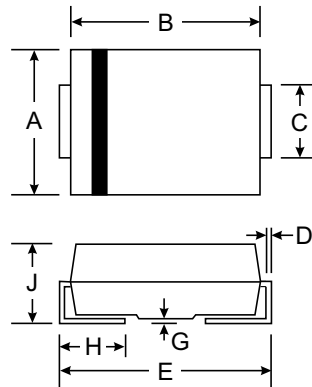
### Features

- Complete voltage range 3.3 to 100 volts
- High peak reverse power dissipation
- High reliability
- Low leakage current
- Standard zener voltage tolerance is  $\pm 5\%$ .



### 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.)



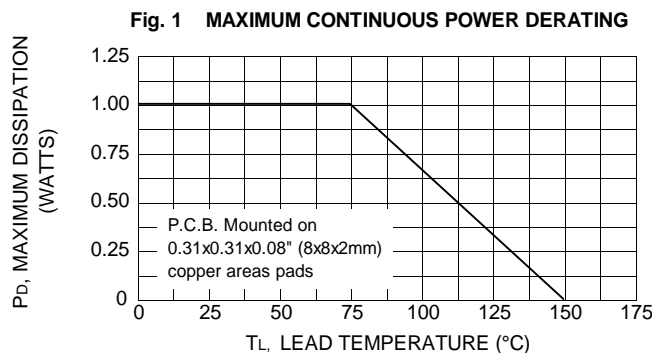
SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

### Maximum Ratings $T_A = 25^\circ\text{C}$ 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 pads.





## ELECTRICAL CHARACTERISTICS Rating at 25 °C ambient temperature unless otherwise specified

Type	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current	Maximum Surge Current
	Vz @ IzT	IzT	ZzT @ IzT	Zzk @ Izk	Izk	I <sub>R</sub> @ V <sub>R</sub>		I <sub>ZM</sub>	I <sub>RM</sub> <sup>(2)</sup>
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)	(mA <sub>pk</sub> )
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	50	4.0	133	660
SMAJ4737A	7.5	34.0	4.0	700	0.5	50	5.0	121	605
SMAJ4738A	8.2	31.0	4.5	700	0.5	50	6.0	110	550
SMAJ4739A	9.1	28.0	5.0	700	0.5	50	7.0	100	500
SMAJ4740A	10	25.0	7.0	700	0.25	50	7.6	91	454
SMAJ4741A	11	23.0	8.0	700	0.25	50	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

**Notes :**

(1) The type number listed have a standard tolerance on the nominal zener voltage of  $\pm 5\%$ .