

**VOLTAGE RANGE: 3.3 - 400V**  
**POWER: 1.0Watts**

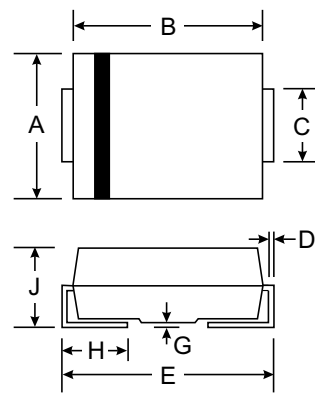
### Features

- Complete voltage range 3.3 to 400 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current



### Mechanical Data

- Case : SMA (DO-214AC) Molded plastic
- Epoxy : UL94V-O rate flame retardant
- Lead : Lead formed for Surface mount
- Polarity : Color band denotes cathode end
- Mounting position : Any
- 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<sub>A</sub> = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T <sub>L</sub> = 50 °C (Note1)	P <sub>D</sub>	1.0	Watt
Maximum Forward Voltage at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R <sub>θJA</sub>	170	K / W
Junction Temperature Range	T <sub>J</sub>	- 55 to + 175	°C
Storage Temperature Range	T <sub>s</sub>	- 55 to + 175	°C

**Note :**

- (1) T<sub>L</sub> = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



## 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
	Vz @ IzT	IzT	ZzT @ IzT	Zzk @ Izk	Izk	IR @ VR		IzM
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
SMAZ3V3	3.3	76.0	10	400	1.0	100	1.0	276
SMAZ3V6	3.6	69.0	10	400	1.0	100	1.0	252
SMAZ3V9	3.9	64.0	9.0	400	1.0	50	1.0	234
SMAZ4V3	4.3	58.0	9.0	400	1.0	10	1.0	217
SMAZ4V7	4.7	53.0	8.0	500	1.0	10	1.0	193
SMAZ5V1	5.1	49.0	7.0	550	1.0	10	1.0	178
SMAZ5V6	5.6	45.0	5.0	600	1.0	10	2.0	162
SMAZ6V2	6.2	41.0	2.0	700	1.0	10	3.0	146
SMAZ6V8	6.8	37.0	3.5	700	1.0	50	4.0	133
SMAZ7V5	7.5	34.0	4.0	700	0.5	50	5.0	121
SMAZ8V2	8.2	31.0	4.5	700	0.5	50	6.0	110
SMAZ9V1	9.1	28.0	5.0	700	0.5	50	7.0	100
SMAZ10	10	25.0	7.0	700	0.25	50	7.6	91
SMAZ11	11	23.0	8.0	700	0.25	50	8.4	83
SMAZ12	12	21.0	9.0	700	0.25	5.0	9.1	76
SMAZ13	13	19.0	10	700	0.25	5.0	9.9	69
SMAZ15	15	17.0	14	700	0.25	5.0	11.4	61
SMAZ16	16	15.5	16	700	0.25	5.0	12.2	57
SMAZ18	18	14.0	20	750	0.25	5.0	13.7	50
SMAZ20	20	12.5	22	750	0.25	5.0	15.2	45
SMAZ22	22	11.5	23	750	0.25	5.0	16.7	41
SMAZ24	24	10.5	25	750	0.25	5.0	18.2	38
SMAZ27	27	9.5	35	750	0.25	5.0	20.6	34
SMAZ30	30	8.5	40	1000	0.25	5.0	22.8	30
SMAZ33	33	7.5	45	1000	0.25	5.0	25.1	27
SMAZ36	36	7.0	50	1000	0.25	5.0	27.4	25
SMAZ39	39	6.5	60	1000	0.25	5.0	29.7	23
SMAZ43	43	6.0	70	1500	0.25	5.0	32.7	22
SMAZ47	47	5.5	80	1500	0.25	5.0	35.8	19
SMAZ51	51	5.0	95	1500	0.25	5.0	38.8	18
SMAZ56	56	4.5	110	2000	0.25	5.0	42.6	16
SMAZ62	62	4.0	125	2000	0.25	5.0	47.1	14
SMAZ68	68	3.7	150	2000	0.25	5.0	51.7	13
SMAZ75	75	3.3	175	2000	0.25	5.0	56.0	12
SMAZ82	82	3.0	200	3000	0.25	5.0	62.2	11
SMAZ91	91	2.8	250	3000	0.25	5.0	69.2	10
SMAZ100	100	2.5	350	3000	0.25	5.0	76.0	9.0
SMAZ110	110	2.3	450	4000	0.25	5.0	83.6	8.6
SMAZ1120	120	2.0	550	4500	0.25	5.0	91.2	7.8
SMAZ1130	130	1.9	700	5000	0.25	5.0	98.8	7.0
SMAZ1150	150	1.7	1000	6000	0.25	5.0	114.0	6.4
SMAZ1160	160	1.6	1100	6500	0.25	5.0	121.6	5.8
SMAZ1180	180	1.4	1200	7000	0.25	5.0	136.8	5.2
SMAZ1200	200	1.2	1500	8000	0.25	5.0	152.0	4.7



## 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
	V <sub>Z</sub> @ I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> @ I <sub>ZT</sub>	Z <sub>ZK</sub> @ I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub> @ V <sub>R</sub>		I <sub>ZM</sub>
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
<b>SMAZ1240</b>	240	0.93	1800	8500	0.25	5.0	182.4	3.8
<b>SMAZ1250</b>	250	0.90	2000	9000	0.25	5.0	190	3.6
<b>SMAZ1270</b>	270	0.82	2100	9000	0.25	5.0	205	3.3
<b>SMAZ1300</b>	300	0.75	2300	9500	0.25	5.0	228	3.0
<b>SMAZ1330</b>	330	0.70	2500	9500	0.25	5.0	250	2.8
<b>SMAZ1380</b>	380	0.60	2700	9500	0.25	5.0	288	2.4
<b>SMAZ1400</b>	400	0.55	2800	9500	0.25	5.0	304	2.3