

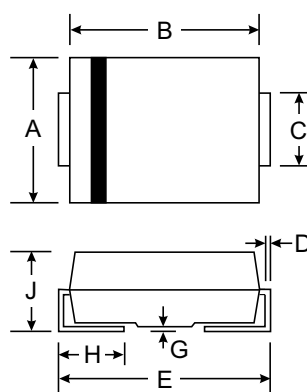
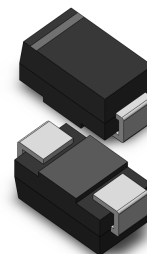
VOLTAGE RANGE: 3.6 - 200V
POWER: 2.0Watts

Features

- Complete Voltage Range 3.6 to 200 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

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	2.0	Watts
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	$R_{\theta JA}$	60	K / W
Junction Temperature Range	T_J	- 55 to + 175	$^\circ\text{C}$
Storage Temperature Range	T_S	- 55 to + 175	$^\circ\text{C}$

Note :

- (1) T_L = 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)
SM2Z3V6	3.6	139	5.0	400	1.0	80	1.0	504
SM2Z3V9	3.9	128	5.0	400	1.0	30	1.0	468
SM2Z4V3	4.3	116	4.5	400	1.0	20	1.0	434
SM2Z4V7	4.7	106	4.5	550	1.0	5.0	1.0	386
SM2Z5V1	5.1	98.0	3.5	600	1.0	5.0	1.0	356
SM2Z5V6	5.6	89.5	2.5	500	1.0	5.0	2.0	324
SM2Z6V2	6.2	80.5	1.5	700	1.0	5.0	3.0	292
SM2Z6V8	6.8	73.5	2.0	700	1.0	5.0	4.0	266
SM2Z7V5	7.5	66.5	2.0	700	0.5	50	5.0	242
SM2Z8V2	8.2	61.0	2.3	700	0.5	50	6.0	220
SM2Z9V1	9.1	55.0	2.5	700	0.5	50	7.0	200
SM2Z10	10	50.0	3.5	700	0.25	50	7.6	182
SM2Z11	11	45.5	4.0	700	0.25	50	8.4	166
SM2Z12	12	41.5	4.5	700	0.25	1.0	9.1	152
SM2Z13	13	38.5	5.0	700	0.25	0.5	9.9	138
SM2Z14	14	35.7	5.5	700	0.25	0.5	10.6	130
SM2Z15	15	33.4	7.0	700	0.25	0.5	11.4	122
SM2Z16	16	31.2	8.0	700	0.25	0.5	12.2	114
SM2Z17	17	29.4	9.0	750	0.25	0.5	13.0	107
SM2Z18	18	27.8	10	750	0.25	0.5	13.7	100
SM2Z19	19	26.3	11	750	0.25	0.5	14.4	95
SM2Z20	20	25.0	11	750	0.25	0.5	15.2	90
SM2Z22	22	22.8	12	750	0.25	0.5	16.7	82
SM2Z24	24	20.8	13	750	0.25	0.5	18.2	76
SM2Z27	27	18.5	18	750	0.25	0.5	20.6	68
SM2Z30	30	16.6	20	1000	0.25	0.5	22.5	60
SM2Z33	33	15.1	23	1000	0.25	0.5	25.1	55
SM2Z36	36	13.9	25	1000	0.25	0.5	27.4	50
SM2Z39	39	12.8	30	1000	0.25	0.5	29.7	47
SM2Z43	43	11.6	35	1500	0.25	0.5	32.7	43
SM2Z47	47	10.6	40	1500	0.25	0.5	35.8	39
SM2Z51	51	9.8	48	1500	0.25	0.5	38.8	36
SM2Z56	56	9.0	55	2000	0.25	0.5	42.6	32
SM2Z62	62	8.1	60	2000	0.25	0.5	47.1	29
SM2Z68	68	7.4	75	2000	0.25	0.5	51.7	27
SM2Z75	75	6.7	90	2000	0.25	0.5	56.0	24
SM2Z82	82	6.1	100	3000	0.25	0.5	62.2	22
SM2Z91	91	5.5	125	3000	0.25	0.5	69.2	20
SM2Z100	100	5.0	175	3000	0.25	0.5	76.0	18
SM2Z110	110	4.5	250	4000	0.25	0.5	83.6	17
SM2Z120	120	4.2	325	4500	0.25	0.5	91.2	15
SM2Z130	130	3.8	400	5000	0.25	0.5	98.8	14
SM2Z140	140	3.6	500	5500	0.25	0.5	106.4	13
SM2Z150	150	3.3	575	6000	0.25	0.5	114.0	12
SM2Z160	160	3.1	650	6500	0.25	0.5	121.6	11
SM2Z170	170	2.9	675	7000	0.25	0.5	130.4	11
SM2Z180	180	2.8	725	7000	0.25	0.5	136.8	10
SM2Z190	190	2.6	825	8000	0.25	0.5	144.8	10
SM2Z200	200	2.5	900	8000	0.25	0.5	152.0	9.0