

**VOLTAGE RANGE: 3.6 - 200V**  
**POWER: 2.0Watts**

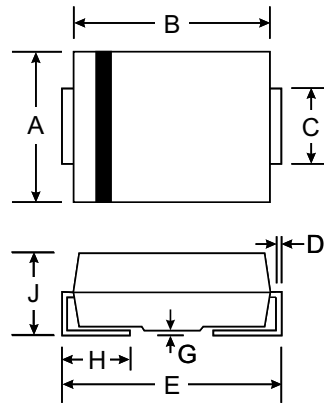
### Features

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



### Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)



SMB(DO-214AA)		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	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> = 75 °C (Note1)	P <sub>D</sub>	2.0	Watts
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>	60	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)
Z2SMB3V6	3.6	139	5.0	400	1.0	80	1.0	504
Z2SMB3V9	3.9	128	5.0	400	1.0	30	1.0	468
Z2SMB4V3	4.3	116	4.5	400	1.0	20	1.0	434
Z2SMB4V7	4.7	106	4.5	550	1.0	5.0	1.0	386
Z2SMB5V1	5.1	98.0	3.5	600	1.0	5.0	1.0	356
Z2SMB5V6	5.6	89.5	2.5	500	1.0	5.0	2.0	324
Z2SMB6V2	6.2	80.5	1.5	700	1.0	5.0	3.0	292
Z2SMB6V8	6.8	73.5	2.0	700	1.0	5.0	4.0	266
Z2SMB7V5	7.5	66.5	2.0	700	0.5	50	5.0	242
Z2SMB8V2	8.2	61.0	2.3	700	0.5	50	6.0	220
Z2SMB9V1	9.1	55.0	2.5	700	0.5	50	7.0	200
Z2SMB10	10	50.0	3.5	700	0.25	50	7.6	182
Z2SMB11	11	45.5	4.0	700	0.25	50	8.4	166
Z2SMB12	12	41.5	4.5	700	0.25	1.0	9.1	152
Z2SMB13	13	38.5	5.0	700	0.25	0.5	9.9	138
Z2SMB14	14	35.7	5.5	700	0.25	0.5	10.6	130
Z2SMB15	15	33.4	7.0	700	0.25	0.5	11.4	122
Z2SMB16	16	31.2	8.0	700	0.25	0.5	12.2	114
Z2SMB17	17	29.4	9.0	750	0.25	0.5	13.0	107
Z2SMB18	18	27.8	10	750	0.25	0.5	13.7	100
Z2SMB19	19	26.3	11	750	0.25	0.5	14.4	95
Z2SMB20	20	25.0	11	750	0.25	0.5	15.2	90
Z2SMB22	22	22.8	12	750	0.25	0.5	16.7	82
Z2SMB24	24	20.8	13	750	0.25	0.5	18.2	76
Z2SMB27	27	18.5	18	750	0.25	0.5	20.6	68
Z2SMB30	30	16.6	20	1000	0.25	0.5	22.5	60
Z2SMB33	33	15.1	23	1000	0.25	0.5	25.1	55
Z2SMB36	36	13.9	25	1000	0.25	0.5	27.4	50
Z2SMB39	39	12.8	30	1000	0.25	0.5	29.7	47
Z2SMB43	43	11.6	35	1500	0.25	0.5	32.7	43
Z2SMB47	47	10.6	40	1500	0.25	0.5	35.8	39
Z2SMB51	51	9.8	48	1500	0.25	0.5	38.8	36
Z2SMB56	56	9.0	55	2000	0.25	0.5	42.6	32
Z2SMB62	62	8.1	60	2000	0.25	0.5	47.1	29
Z2SMB68	68	7.4	75	2000	0.25	0.5	51.7	27
Z2SMB75	75	6.7	90	2000	0.25	0.5	56.0	24
Z2SMB82	82	6.1	100	3000	0.25	0.5	62.2	22
Z2SMB91	91	5.5	125	3000	0.25	0.5	69.2	20
Z2SMB100	100	5.0	175	3000	0.25	0.5	76.0	18
Z2SMB110	110	4.5	250	4000	0.25	0.5	83.6	17
Z2SMB120	120	4.2	325	4500	0.25	0.5	91.2	15
Z2SMB130	130	3.8	400	5000	0.25	0.5	98.8	14
Z2SMB140	140	3.6	500	5500	0.25	0.5	106.4	13
Z2SMB150	150	3.3	575	6000	0.25	0.5	114.0	12
Z2SMB160	160	3.1	650	6500	0.25	0.5	121.6	11
Z2SMB170	170	2.9	675	7000	0.25	0.5	130.4	11
Z2SMB180	180	2.8	725	7000	0.25	0.5	136.8	10
Z2SMB190	190	2.6	825	8000	0.25	0.5	144.8	10
Z2SMB200	200	2.5	900	8000	0.25	0.5	152.0	9.0