

Surface Mount Zener Diodes

 Lead(Pb)-Free

Features:

- * Glass passivated chip
- * Low leakage
- * Built-in strain relief
- * Low inductance
- * High peak reverse power dissipation
- * For use in stabilizing and clipping circuits with high power rating.

Mechanical Data

- * Case: Molded plastic SMB/DO-214AA
- * Epoxy: UL 94V-0 rate flame retardant
- * Polarity: Laser band denotes cathode end
- * Weight: 0.095 gram

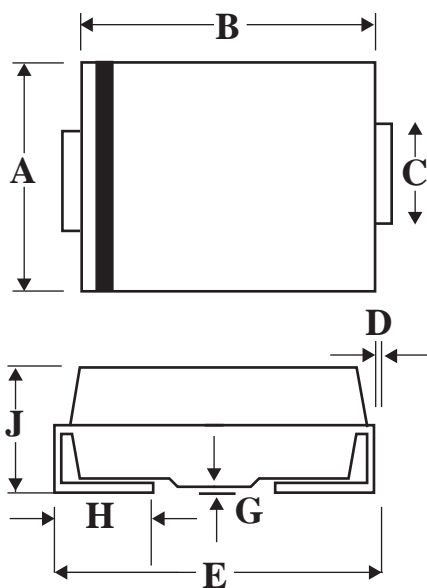
**SURFACE MOUNT
ZENER DIODES
3.0 WATTS**



SMB(DO-214AA)

SMB Outline Dimension

Unit:mm



SMB		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.80
C	1.96	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

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	UNIT
DC Power Dissipation at $T_L = 50^{\circ}\text{C}$	P_D	3.0	W
Maximum Forward Voltage at $I_F = 200\text{mA}$	V_F	1.5	V
Junction Temperature Range	T_J	-55 to +150	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Part Number	Nominal Zener Voltage		Max. Zener Impedance				Max. Reverse Leakage Current		Max. DC Zener Current	Marking Code
	$V_Z @ I_{ZT}$		$Z_{ZT} @ I_{ZT}$		$Z_{ZK} @ I_{ZK}$		$I_R @ V_R$		I_{ZM}	
	Nom. V	mA	Ω	mA	Ω	mA	μA	V	mA	
SMB5920B	6.2	60.5	2.0	60.5	200	1.00	5.0	4.0	240.0	B5920B
SMB5921B	6.8	55.1	2.5	55.1	200	1.00	5.0	5.2	440.0	B5921B
SMB5922B	7.5	50.0	3.0	50.0	400	0.50	5.0	6.0	400.0	B5922B
SMB5923B	8.2	45.7	3.5	45.7	400	0.50	5.0	6.5	364.0	B5923B
SMB5924B	9.1	41.2	4.0	41.2	500	0.50	5.0	7.0	328.0	B5924B
SMB5925B	10.0	37.5	4.5	37.5	500	0.25	5.0	8.0	300.0	B5925B
SMB5926B	11.0	34.1	5.5	34.1	550	0.25	5.0	8.4	272.0	B5926B
SMB5927B	12.0	31.2	6.5	31.2	550	0.25	1.0	9.1	250.0	B5927B
SMB5928B	13.0	28.8	7.0	28.8	550	0.25	1.0	9.9	230.0	B5928B
SMB5929B	15.0	25.0	9.0	25.0	600	0.25	1.0	11.4	200.0	B5929B
SMB5930B	16.0	23.4	10.0	23.4	600	0.25	1.0	12.2	186.0	B5930B
SMB5931B	18.0	20.8	12.0	20.8	650	0.25	1.0	13.7	166.0	B5931B
SMB5932B	20.0	18.7	14.0	18.7	650	0.25	1.0	15.2	150.0	B5932B
SMB5933B	22.0	17.0	18.0	17.0	650	0.25	1.0	16.7	136.0	B5933B
SMB5934B	24.0	15.6	19.0	15.6	700	0.25	1.0	18.2	124.0	B5934B
SMB5935B	27.0	13.9	23.0	13.9	700	0.25	1.0	20.6	110.0	B5935B
SMB5936B	30.0	12.5	26.0	12.5	750	0.25	1.0	22.8	100.0	B5936B
SMB5937B	33.0	11.4	33.0	11.4	800	0.25	1.0	25.1	90.0	B5937B
SMB5938B	36.0	10.4	38.0	10.4	850	0.25	1.0	27.4	82.0	B5938B
SMB5939B	39.0	9.6	45.0	9.6	900	0.25	1.0	29.7	76.0	B5939B
SMB5940B	43.0	8.7	53.0	8.7	950	0.25	1.0	32.7	68.0	B5940B
SMB5941B	47.0	8.0	67.0	8.0	1000	0.25	1.0	35.8	62.0	B5941B
SMB5942B	51.0	7.3	70.0	7.3	1100	0.25	1.0	38.8	58.0	B5942B
SMB5943B	56.0	6.7	86.0	6.7	1300	0.25	1.0	42.6	52.0	B5943B
SMB5944B	62.0	6.0	100.0	6.0	1500	0.25	1.0	47.1	48.0	B5944B
SMB5945B	68.0	5.5	120.0	5.5	1700	0.25	1.0	51.7	44.0	B5945B
SMB5946B	75.0	5.0	140.0	5.0	2000	0.25	1.0	56.0	40.0	B5946B
SMB5947B	82.0	4.6	160.0	4.6	2500	0.25	1.0	62.2	36.0	B5947B
SMB5948B	91.0	4.1	200.0	4.1	3000	0.25	1.0	69.2	32.0	B5948B
SMB5949B	100.0	3.7	250.0	3.7	3100	0.25	1.0	76.0	30.0	B5949B
SMB5950B	110.0	3.4	300.0	3.4	4000	0.25	1.0	83.6	13.0	B5950B
SMB5951B	120.0	3.1	380.0	3.1	4500	0.25	1.0	91.2	12.0	B5951B
SMB5952B	130.0	2.9	450.0	2.9	5000	0.25	1.0	98.8	11.0	B5952B
SMB5953B	150.0	2.5	600.0	2.5	6000	0.25	1.0	114.0	10.0	B5953B
SMB5954B	160.0	2.3	700.0	2.3	6500	0.25	1.0	121.6	9.0	B5954B
SMB5955B	180.0	2.1	900.0	2.1	7000	0.25	1.0	136.8	8.0	B5955B
SMB5956B	200.0	1.9	1900.0	1.9	9990	0.25	1.0	152.0	7.0	B5956B