

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.

**SURFACE MOUNT
ZENER DIODES
3.0 WATTS**



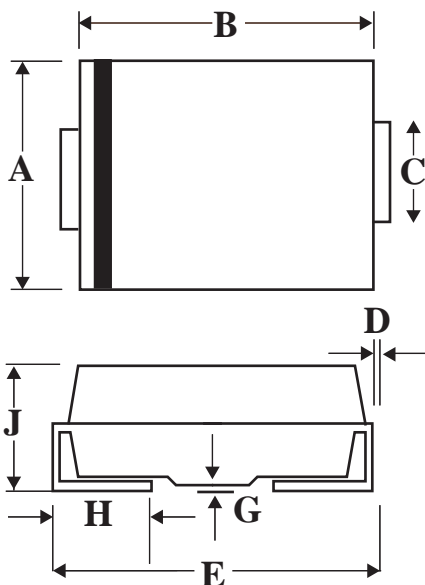
SMB(DO-214AA)

Mechanical Data

- * Case: Molded plastic SMB/DO-214AA
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solderable per MIL-STD-750 method 2026
- * Polarity: cathode band
- * Mounting position: Any
- * Weight: 0.093 gram

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
Junction Temperature Range	T_J	-55 to +175	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +175	$^{\circ}\text{C}$

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	
SMB5921B	6.8	55.1	2.5	55.1	200	1.00	5.0	5.2	440.0	21B
SMB5922B	7.5	50.0	3.0	50.0	400	0.50	5.0	6.0	400.0	22B
SMB5923B	8.2	45.7	3.5	45.7	400	0.50	5.0	6.5	364.0	23B
SMB5924B	9.1	41.2	4.0	41.2	500	0.50	5.0	7.0	328.0	24B
SMB5925B	10.0	37.5	4.5	37.5	500	0.25	5.0	8.0	300.0	25B
SMB5926B	11.0	34.1	5.5	34.1	550	0.25	5.0	8.4	272.0	26B
SMB5927B	12.0	31.2	6.5	31.2	550	0.25	1.0	9.1	250.0	27B
SMB5928B	13.0	28.8	7.0	28.8	550	0.25	1.0	9.9	230.0	28B
SMB5929B	15.0	25.0	9.0	25.0	600	0.25	1.0	11.4	200.0	29B
SMB5930B	16.0	23.4	10.0	23.4	600	0.25	1.0	12.2	186.0	30B
SMB5931B	18.0	20.8	12.0	20.8	650	0.25	1.0	13.7	166.0	31B
SMB5932B	20.0	18.7	14.0	18.7	650	0.25	1.0	15.2	150.0	32B
SMB5933B	22.0	17.0	18.0	17.0	650	0.25	1.0	16.7	136.0	33B
SMB5934B	24.0	15.6	19.0	15.6	700	0.25	1.0	18.2	124.0	34B
SMB5935B	27.0	13.9	23.0	13.9	700	0.25	1.0	20.6	110.0	35B
SMB5936B	30.0	12.5	26.0	12.5	750	0.25	1.0	22.8	100.0	36B
SMB5937B	33.0	11.4	33.0	11.4	800	0.25	1.0	25.1	90.0	37B
SMB5938B	36.0	10.4	38.0	10.4	850	0.25	1.0	27.4	82.0	38B
SMB5939B	39.0	9.6	45.0	9.6	900	0.25	1.0	29.7	76.0	39B
SMB5940B	43.0	8.7	53.0	8.7	950	0.25	1.0	32.7	68.0	40B
SMB5941B	47.0	8.0	67.0	8.0	1000	0.25	1.0	35.8	62.0	41B
SMB5942B	51.0	7.3	70.0	7.3	1100	0.25	1.0	38.8	58.0	42B
SMB5943B	56.0	6.7	86.0	6.7	1300	0.25	1.0	42.6	52.0	43B
SMB5944B	62.0	6.0	100.0	6.0	1500	0.25	1.0	47.1	48.0	44B
SMB5945B	68.0	5.5	120.0	5.5	1700	0.25	1.0	51.7	44.0	45B
SMB5946B	75.0	5.0	140.0	5.0	2000	0.25	1.0	56.0	40.0	46B
SMB5947B	82.0	4.6	160.0	4.6	2500	0.25	1.0	62.2	36.0	47B
SMB5948B	91.0	4.1	200.0	4.1	3000	0.25	1.0	69.2	32.0	48B
SMB5949B	100.0	3.7	250.0	3.7	3100	0.25	1.0	76.0	30.0	49B