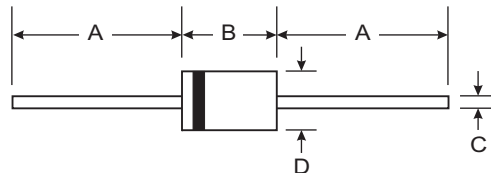


Features

- 500mW Power Dissipation
- High Stability
- Surface Mount Equivalents Available
- Hermetic Package
- V_Z - Tolerance $\pm 5\%$
- **Lead Free Finish, RoHS Compliant (Note 2)**



Mechanical Data

- Case: DO-35
- Case Material: Glass
- Moisture Sensitivity: Level 1 per J-STD-020C
- Leads: Solderable per MIL-STD-202, Method 208
- Terminals: Finish - Sn96.5Ag3.5. Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 0.13 grams (approximate)

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	P_d	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	300	$^\circ\text{C}/\text{W}$
Forward Voltage @ $I_F = 200\text{mA}$	V_F	1.1	V
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +200	$^\circ\text{C}$

- Notes:
1. Valid provided that leads are kept at $T_L \leq 75^\circ\text{C}$ with lead length = 9.5mm (3/8") from case; derate above 75°C .
 2. EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied where applicable, see EU Directive Annex Notes 5 and 7.



Electrical Characteristics @ T_A = 25°C unless otherwise specified

Table 1

Type Number	Zener Voltage Range (Note 3)			Test Current	Maximum Zener Impedance		Maximum Reverse Current		Maximum Temperature Coefficient @ I _{ZT}
	V _Z @ I _{ZT}			I _{ZT}	Z _{zT} @ I _{ZT}	Z _{ZK} @ I _{ZK} = 0.25mA	I _R	@V _R	
	Nom (V)	Min (V)	Max (V)	mA	Ω	Ω	μA	V	
1N5221B	2.4	2.28	2.52	20	30	1200	100	1.0	-0.085
1N5222B	2.5	2.38	2.63	20	30	1250	100	1.0	-0.085
1N5223B	2.7	2.57	2.84	20	30	1300	75	1.0	-0.080
1N5224B	2.8	2.66	2.94	20	30	1400	75	1.0	-0.080
1N5225B	3.0	2.85	3.15	20	29	1600	50	1.0	-0.075
1N5226B	3.3	3.14	3.47	20	28	1600	25	1.0	-0.070
1N5227B	3.6	3.42	3.78	20	24	1700	15	1.0	-0.065
1N5228B	3.9	3.71	4.10	20	23	1900	10	1.0	-0.060
1N5229B	4.3	4.09	4.52	20	22	2000	5.0	1.0	+0.055
1N5230B	4.7	4.47	4.94	20	19	1900	5.0	2.0	+0.030
1N5231B	5.1	4.85	5.36	20	17	1600	5.0	2.0	+0.030
1N5232B	5.6	5.32	5.88	20	11	1600	5.0	3.0	+0.038
1N5233B	6.0	5.70	6.30	20	7.0	1600	5.0	3.5	+0.038
1N5234B	6.2	5.89	6.51	20	7.0	1000	5.0	4.0	+0.045
1N5235B	6.8	6.46	7.14	20	5.0	750	3.0	5.0	+0.050
1N5236B	7.5	7.13	7.88	20	6.0	500	3.0	6.0	+0.058
1N5237B	8.2	7.79	8.61	20	8.0	500	3.0	6.5	+0.062
1N5238B	8.7	8.27	9.14	20	8.0	600	3.0	6.5	+0.065
1N5239B	9.1	8.65	9.56	20	10	600	3.0	7.0	+0.068
1N5240B	10	9.50	10.50	20	17	600	3.0	8.0	+0.075
1N5241B	11	10.45	11.55	20	22	600	2.0	8.4	+0.076
1N5242B	12	11.40	12.60	20	30	600	1.0	9.1	+0.077
1N5243B	13	12.35	13.65	9.5	13	600	0.5	9.9	+0.079
1N5244B	14	13.30	14.70	9.0	15	600	0.1	10	+0.082
1N5245B	15	14.25	15.75	8.5	16	600	0.1	11	+0.082
1N5246B	16	15.20	16.80	7.8	17	600	0.1	12	+0.083
1N5247B	17	16.15	17.85	7.4	19	600	0.1	13	+0.084
1N5248B	18	17.10	18.90	7.0	21	600	0.1	14	+0.085
1N5249B	19	18.05	19.95	6.6	23	600	0.1	14	+0.086
1N5250B	20	19.00	21.00	6.2	25	600	0.1	15	+0.086
1N5251B	22	20.90	23.10	5.6	29	600	0.1	17	+0.087
1N5252B	24	22.80	25.20	5.2	33	600	0.1	18	+0.087
1N5253B	25	23.75	26.25	5.0	35	600	0.1	19	+0.089
1N5254B	27	25.65	28.35	4.6	41	600	0.1	21	+0.090
1N5255B	28	26.60	29.40	4.5	44	600	0.1	21	+0.091
1N5256B	30	28.50	31.50	4.2	49	600	0.1	23	+0.091
1N5257B	33	31.35	34.65	3.8	58	700	0.1	25	+0.092
1N5258B	36	34.20	37.80	3.4	70	700	0.1	27	+0.093
1N5259B	39	37.05	40.95	3.2	80	800	0.1	30	+0.094
1N5260B	43	40.85	45.15	3.0	93	900	0.1	33	+0.095
1N5261B	47	44.65	49.35	2.7	105	1000	0.1	36	+0.095
1N5262B	51	48.45	53.55	2.5	125	1100	0.1	39	+0.096
1N5263B	56	53.20	58.80	2.2	150	1300	0.1	43	+0.096
1N5264B	60	57.00	63.00	2.1	170	1400	0.1	46	+0.097
1N5265B	62	58.90	65.10	2.0	185	1400	0.1	47	+0.097
1N5266B	68	64.60	71.40	1.8	230	1600	0.1	52	+0.097
1N5267B	75	71.25	78.75	1.7	270	1700	0.1	56	+0.098

Notes: 3. Based on dc measurement at thermal equilibrium; lead length = 9.5mm (3/8"); thermal resistance of heat sink = 30°C/W.



Ordering Information (Note 5)

Device	Packaging	Shipping
(Type Number)-A*	DO-35	5K/Ammo Pack
(Type Number)-T*	DO-35	5K/Tape & Reel

- Notes: 4. *Add "-A" or "-T" to the appropriate type number in Table 1. Example: 6.2V Zener = 1N5234B-A for ammo pack.
5. For packaging details, visit our website at <http://www.diodes.com/datasheets/ap02008.pdf>.

IMPORTANT NOTICE

Diodes Incorporated and its subsidiaries reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to any product herein. Diodes Incorporated does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

Diodes Incorporated products are not authorized for use as critical components in life support devices or systems without the expressed written approval of the President of Diodes Incorporated.

EEPW.com.cn 电子產品世界