

NOT RECOMMENDED FOR **NEW DESIGN, USE** MMSZ52xxB

<u>1N5221B - 1N5267B</u>

Features

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

Mechanical Data

Case: DO-35

Case Material: Glass

Moisture Sensitivity: Level 1 per J-STD-020

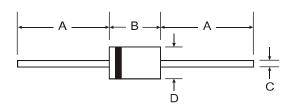
Leads: Solderable per MIL-STD-202, Method 208

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		
Α	25.40	_		
В	_	4.00		
С	_	0.60		
D	_	2.00		
All Dimensions in mm				

Maximum Ratings and Electrical Characteristics @T_A = 25°C unless otherwise specified

Chara	cteristic	Symbol	Value	Unit
Power Dissipation (Note 1)		P _D	500	mW
Thermal Resistance, Junction to	Ambient Air (Note 1)	$R_{\theta JA}$	300	°C/W
Forward Voltage	@ $I_F = 200 \text{mA}$	V_{F}	1.1	V
Operating and Storage Tempera	ture Range	T _{J,} T _{STG}	-65 to +200	°C

1. Valid provided that leads are kept at TL ≤75°C with lead length = 9.5mm (3/8") from case; derate above 75°C. Notes:

2. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied, see EU Directive 2002/95/EC Annex Notes.



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Electrical Characteristics Table 1 @T_A = 25°C unless otherwise specified

$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Coefficient @ I _{ZT} %/°C -0.085 -0.085 -0.080 -0.075
1N5221B 2.4 2.28 2.52 20 30 1200 100 1.0 1N5222B 2.5 2.38 2.63 20 30 1250 100 1.0 1N5223B 2.7 2.57 2.84 20 30 1300 75 1.0 1N5224B 2.8 2.66 2.94 20 30 1400 75 1.0 1N5225B 3.0 2.85 3.15 20 29 1600 50 1.0 1N5226B 3.3 3.14 3.47 20 28 1600 25 1.0	-0.085 -0.085 -0.080 -0.080 -0.075
1N5222B 2.5 2.38 2.63 20 30 1250 100 1.0 1N5223B 2.7 2.57 2.84 20 30 1300 75 1.0 1N5224B 2.8 2.66 2.94 20 30 1400 75 1.0 1N5225B 3.0 2.85 3.15 20 29 1600 50 1.0 1N5226B 3.3 3.14 3.47 20 28 1600 25 1.0	-0.085 -0.080 -0.080 -0.075
1N5223B 2.7 2.57 2.84 20 30 1300 75 1.0 1N5224B 2.8 2.66 2.94 20 30 1400 75 1.0 1N5225B 3.0 2.85 3.15 20 29 1600 50 1.0 1N5226B 3.3 3.14 3.47 20 28 1600 25 1.0	-0.080 -0.080 -0.075
1N5224B 2.8 2.66 2.94 20 30 1400 75 1.0 1N5225B 3.0 2.85 3.15 20 29 1600 50 1.0 1N5226B 3.3 3.14 3.47 20 28 1600 25 1.0	-0.080 -0.075
1N5225B 3.0 2.85 3.15 20 29 1600 50 1.0 1N5226B 3.3 3.14 3.47 20 28 1600 25 1.0	-0.075
1N5226B 3.3 3.14 3.47 20 28 1600 25 1.0	
	-0.070
4NEOGED 0.0 0.40 0.70 00 04 1700 17	
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

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



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Ordering Information (Notes 4 & 5)

Device	Packaging	Shipping
(Type Number)-A	DO-35	5K/Ammo Pack
(Type Number)-T	DO-35	10K/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.

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