

# 1N5221B THRU 1N5267B ZENER DIODES

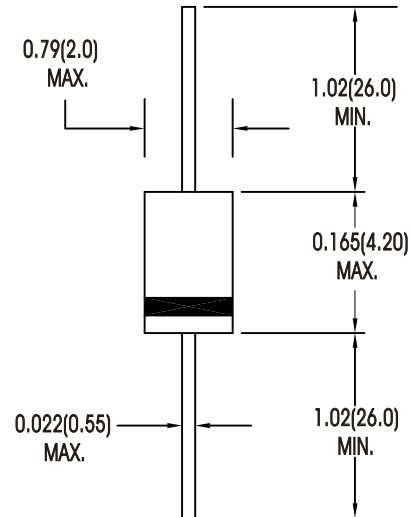
## FEATURES:

- HIGH RELIABILITY
- VERY SHARP REVERSE CHARACTERISTIC
- LOW REVERSE CURRENT LEVEN
- Vz-tolerance  $\pm 5\%$
  
- These diodes are also available in DO-35 case with the type designation BZX55C(A)(B)(D)2V4..... BZX55C(A)(B)(D)75

## MECHANICAL DATA

Case: AIXAL Molded Glass

### DO-35



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	Value	Units
Power Dissipation at Tamb=25 °C	Pv	0.5	W
Z-current	Iz	Pv/Iz	mA
Tremal Resistance Junction to Ambient Air L=9.5mm(3/8") Tl=constant	RthJ-A	300	K/W
Maximum instantaneous forward voltage drop at IF=200 mADC	V <sub>F</sub>	1.1	Volts
Junction temperature	T <sub>J</sub>	175	°C
Storage temperature range	Tstg	-65 to +175	°C

1) Based on DC-measurement at thermal equilibrium while maintaining the lead temperature(tl)at30 °C ,9.5mm(3/8") from the diode body

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Device Type	Nominal Zener Voltage Vz at IzT	Test Current IzT	Maximum Zener Impedance			Maximum Reverse Leakage Current		Typical Temperature coefficient
			ZzT at IzT	ZzK at IzK	IzK	IR	Test Voltage VR	
	Volts	mA	$\Omega$	$\Omega$	mA	$\mu$ A	Volts	%/K
1N5221B	2.4	20	<30	<1200	0.25	<100	1.0	<-0.085
1N5222B	2.5	20	<30	<1250	0.25	<100	1.0	<-0.085
1N5223B	2.7	20	<30	<1300	0.25	<75	1.0	<-0.080
1N5224B	2.8	20	<30	<1400	0.25	<75	1.0	<-0.080
1N5225B	3.0	20	<29	<1600	0.25	<50	1.0	<-0.075
1N5226B	3.3	20	<28	<1600	0.25	<25	1.0	<-0.070
1N5227B	3.6	20	<24	<1700	0.25	<15	1.0	<-0.065
1N5228B	3.9	20	<23	<1900	0.25	<10	1.0	<-0.060
1N5229B	4.3	20	<22	<2000	0.25	<5	1.0	<+0.055
1N5230B	4.7	20	<19	<1900	0.25	<5	2.0	<+0.030
1N5231B	5.1	20	<17	<1600	0.25	<5	2.0	<+0.030
1N5232B	5.6	20	<11	<1600	0.25	<5	3.0	<+0.038
1N5233B	6.0	20	<7	<1600	0.25	<5	3.5	<+0.038
1N5234B	6.2	20	<7	<1000	0.25	<5	4.0	<+0.045
1N5235B	6.8	20	<5	<750	0.25	<3	5.0	<+0.050
1N5236B	7.5	20	<6	<500	0.25	<3	6.0	<+0.058
1N5237B	8.2	20	<8	<500	0.25	<3	6.5	<+0.062
1N5238B	8.7	20	<8	<600	0.25	<3	6.5	<+0.065
1N5239B	9.1	20	<10	<600	0.25	<3	7.0	<+0.068
1N5240B	10	20	<17	<600	0.25	<3	8.0	<+0.075
1N5241B	11	20	<22	<600	0.25	<2	8.4	<+0.076
1N5242B	12	20	<30	<600	0.25	<1	9.1	<+0.077
1N5243B	13	9.5	<13	<600	0.25	<0.5	9.9	<+0.079
1N5244B	14	9.0	<15	<600	0.25	<0.1	10	<+0.082
1N5245B	15	8.5	<16	<600	0.25	<0.1	11	<+0.082
1N5246B	16	7.8	<17	<600	0.25	<0.1	12	<+0.083
1N5247B	17	7.4	<19	<600	0.25	<0.1	13	<+0.084
1N5248B	18	7.0	<21	<600	0.25	<0.1	14	<+0.085
1N5249B	19	6.6	<23	<600	0.25	<0.1	15	<+0.086
1N5250B	20	6.2	<25	<600	0.25	<0.1	16	<+0.086
1N5251B	22	5.6	<29	<600	0.25	<0.1	17	<+0.087
1N5252B	24	5.2	<33	<600	0.25	<0.1	18	<+0.088
1N5253B	25	5.0	<35	<600	0.25	<0.1	19	<+0.089
1N5254B	27	4.6	<41	<600	0.25	<0.1	21	<+0.090
1N5255B	28	4.5	<44	<600	0.25	<0.1	21	<+0.091
1N5256B	30	4.2	<49	<600	0.25	<0.1	23	<+0.091
1N5257B	33	3.8	<58	<700	0.25	<0.1	25	<+0.092
1N5458B	36	3.4	<70	<700	0.25	<0.1	27	<+0.093
1N5259B	39	3.2	<80	<800	0.25	<0.1	30	<+0.094
1N5260B	43	3.0	<93	<900	0.25	<0.1	33	<+0.095
1N5261B	47	2.7	<105	<1000	0.25	<0.1	36	<+0.095
1N5262B	51	2.5	<125	<1100	0.25	<0.1	39	<+0.096
1N5263B	56	2.2	<150	<1300	0.25	<0.1	43	<+0.096
1N5264B	60	2.1	<170	<1400	0.25	<0.1	46	<+0.097
1N5265B	62	2.0	<185	<1400	0.25	<0.1	47	<+0.097
1N5266B	68	1.8	<230	<1600	0.25	<0.1	52	<+0.097
1N5267B	75	1.7	<270	<1700	0.25	<0.1	58	<+0.098

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Figure. 1-TOTAL POWER DISSIPATION

