



# 1N5221B~1N5267B

**Zener diode**

Voltage Range  
2.4 to 75 Volts

**Features**

- 1.High reliability
- 2.Very sharp reverse characteristic
- 3.Low reverse current level
- 4.Vz-tolerance\*5%

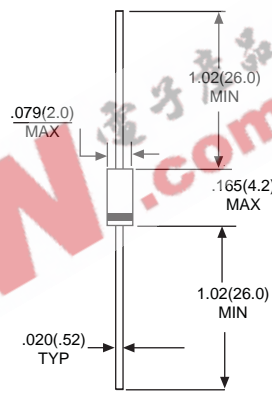
**Applications**

Voltage stabilization

**Absolute Maximum Ratings**

T<sub>j</sub>=25°C

**DO-35**



Dimensions in inches and (millimeters)

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation	T <sub>amb</sub> *75°C		P <sub>D</sub>	500	mW
Z-current			I <sub>z</sub>	P <sub>D</sub> /V <sub>z</sub>	mA
Junction temperature			T <sub>j</sub>	200	°C
Storage temperature range			T <sub>stg</sub>	-65~+200	°C

**Maximum Thermal Resistance**

T<sub>j</sub>=25°C

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	l=9.5mm(3/8") T <sub>L</sub> =constant	R <sub>thJA</sub>	300	K/W

**Electrcal Characteristics**

T<sub>j</sub>=25°C

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	I <sub>F</sub> =200mA		V <sub>F</sub>			1.1	V



Type	V <sub>znom</sub>	I <sub>zt</sub> for V <sub>zt</sub> and R <sub>zt</sub>		R <sub>zk</sub> at I <sub>zk</sub>		I <sub>R</sub> at V <sub>R</sub>		TK <sub>vz</sub>
	V	mA	*	*	mA	uA	V	%/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	<3-3	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	<2	8.0	<+0.075
1N5241B	11	20	<22	<600	0.25	<1	8.4	<+0.076
1N5242B	12	20	<30	<600	0.25	<0.5	9.1	<+0.077
1N5243B	13	9.5	<13	<600	0.25	<0.1	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	<39	<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
1N5258B	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

1)Based on DC-measurement at thermal equilibrium while maintaining the lead temperature (T<sub>L</sub>)at 30°C, 9.5mm(3/8") from the diode body.