

Zeners 1N5221B - 1N5279B

Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
	Derate above 50°C	4.0	mW/°C
T _{STG}	Storage Temperature Range	-65 to +200	°C
T _J	Maximum Junction Operating Temperature	+200	°C
	Lead Temperature (1/16" from case for 10 seconds)	+230	°C

* These ratings are limiting values above which the serviceability of the diode may be impaired.

** Non-recurrent square wave PW = 8.3ms, Ta = 50 degrees C.

Tolerance = 5%



Electrical Characteristics T_A = 25°C unless otherwise noted

Device	V _Z (V) @ I _Z (Note 1)			Z _Z (Ω) @ I _Z (mA)		Z _{ZK} (Ω) @ I _{ZK} (mA)		I _R (μA) @ V _R (V)		T _C (%/°C)
	Min.	Typ.	Max.							
1N5221B	2.28	2.4	2.52	30	20	1,200	0.25	100	1.0	-0.085
1N5222B	2.375	2.5	2.625	30	20	1,250	0.25	100	1.0	-0.085
1N5223B	2.565	2.7	2.835	30	20	1,300	0.25	75	1.0	-0.080
1N5224B	2.66	2.8	2.94	30	20	1,400	0.25	75	1.0	-0.080
1N5225B	2.85	3	3.15	29	20	1,600	0.25	50	1.0	-0.075
1N5226B	3.135	3.3	3.465	28	20	1,600	0.25	25	1.0	-0.07
1N5227B	3.42	3.6	3.78	24	20	1,700	0.25	15	1.0	-0.065
1N5228B	3.705	3.9	4.095	23	20	1,900	0.25	10	1.0	-0.06
1N5229B	4.085	4.3	4.515	22	20	2,000	0.25	5.0	1.0	+/-0.055
1N5230B	4.465	4.7	4.935	19	20	1,900	0.25	2.0	1.0	+/-0.03
1N5231B	4.845	5.1	5.355	17	20	1,600	0.25	2.0	2.0	+/-0.03
1N5232B	5.32	5.6	5.88	11	20	1,600	0.25	3.0	3.0	0.038
1N5233B	5.7	6	6.3	7.0	20	1,600	0.25	3.5	3.5	0.038
1N5234B	5.89	6.2	6.51	7.0	20	1,000	0.25	4.0	4.0	0.045
1N5235BT	6.46	6.8	7.14	5.0	20	750	0.25	5.0	5.0	0.05
1N5236BT	7.125	7.5	7.875	6.0	20	500	0.25	6.0	6.0	0.058
1N5237BT	7.79	8.2	8.61	8.0	20	500	0.25	6.5	6.5	0.062
1N5238BT	8.265	8.7	9.135	8.0	20	600	0.25	6.5	6.5	0.065
1N5239BT	8.645	9.1	9.555	10	20	600	0.25	7.0	7.0	0.068
1N5240BT	9.5	10	10.5	17	20	600	0.25	8.0	8.0	0.075
1N5241BT	10.45	11	11.55	22	20	600	0.25	8.4	8.4	0.076
1N5242BT	11.4	12	12.6	30	20	600	0.25	0.1	9.1	0.077
1N5243BT	12.35	13	13.65	13	9.5	600	0.25	0.1	9.9	0.079
1N5244BT	13.3	14	14.7	15	9.0	600	0.25	0.1	10	0.080
1N5245BT	14.25	15	15.75	16	8.5	600	0.25	0.1	11	0.082
1N5246BT	15.2	16	16.8	17	7.8	600	0.25	0.1	12	0.083
1N5247BT	16.15	17	17.85	19	7.4	600	0.25	0.1	13	0.084
1N5248BT	17.1	18	18.9	21	7.0	600	0.25	0.1	14	0.085
1N5247BT	18.05	19	19.95	23	6.6	600	0.25	0.1	14	0.085
1N5250BT	19	20	21	25	6.2	600	0.25	0.1	15	0.086

Electrical Characteristics (Continued) $T_A=25^{\circ}\text{C}$ unless otherwise noted

Device	V_Z (V) @ I_Z (Note 1)			Z_Z (Ω) @ I_Z (mA)		Z_{ZK} (Ω) @ I_{ZK} (mA)		I_R (μA) @ V_R (V)		T_C (%/ $^{\circ}\text{C}$)
	Min.	Typ.	Max.							
1N5235B	6.46	6.8	7.14	5.0	20	750	0.25	5.0	5.0	0.05
1N5236B	7.125	7.5	7.875	6.0	20	500	0.25	6.0	6.0	0.058
1N5237B	7.79	8.2	8.61	8.0	20	500	0.25	6.5	6.5	0.062
1N5238B	8.265	8.7	9.135	8.0	20	600	0.25	6.5	6.5	0.065
1N5239B	8.645	9.1	9.555	10	20	600	0.25	7.0	7.0	0.068
1N5240B	9.5	10	10.5	17	20	600	0.25	8.0	8.0	0.075
1N5241B	10.45	11	11.55	22	20	600	0.25	8.4	8.4	0.076
1N5242B	11.4	12	12.6	30	20	600	0.25	0.1	9.1	0.077
1N5243B	12.35	13	13.65	13	9.5	600	0.25	0.1	9.9	0.079
1N5244B	13.3	14	14.7	15	9.0	600	0.25	0.1	10	0.080
1N5245B	14.25	15	15.75	16	8.5	600	0.25	0.1	11	0.082
1N5246B	15.2	16	16.8	17	7.8	600	0.25	0.1	12	0.083
1N5247B	16.15	17	17.85	19	7.4	600	0.26	0.1	13	0.084
1N5248B	17.1	18	18.9	21	7.0	600	0.25	0.1	4	0.085
1N5249B	18.05	19	19.95	23	6.6	600	0.25	0.1	14	0.085
1N5250B	19	20	21	25	6.2	600	0.25	0.1	15	0.086
1N5251B	20.9	22	23.1	29	5.6	600	0.25	0.1	17	0.087
1N5252B	22.8	24	25.2	33	5.2	600	0.25	0.1	18	0.088
1N5253B	23.75	25	26.25	35	5.0	600	0.25	0.1	19	0.088
1N5254B	25.65	27	28.35	41	4.6	600	0.25	0.1	21	0.089
1N5255B	26.6	28	29.4	44	4.5	600	0.25	0.1	21	0.090
1N5256B	28.5	30	31.5	49	4.2	600	0.25	0.1	23	0.09
1N5257B	31.35	33	34.65	58	3.8	700	0.25	0.1	25	0.092
1N5258B	34.2	36	37.8	70	3.4	700	0.25	0.1	27	0.093
1N5259B	37.05	39	40.95	80	3.2	800	0.25	0.1	30	0.094
1N5260B	40.85	43	45.15	93	3.0	900	0.25	0.1	33	0.095
1N5261B	44.65	47	49.35	105	2.7	1000	0.25	0.1	36	0.095
1N5262B	48.45	51	53.55	125	2.5	1100	0.25	0.1	39	0.096
1N5263B	53.2	56	58.8	150	2.2	1300	0.25	0.1	43	0.096
1N5264B	57	60	63	170	2.1	1400	0.25	0.1	46	0.097
1N5265B	58.9	62	65.1	185	2.0	1400	0.25	0.1	47	0.097
1N5266B	64.6	68	71.4	230	1.8	1600	0.25	0.1	52	0.097
1N5267B	71.25	75	78.75	270	1.7	1700	0.25	0.1	56	0.098
1N5268B	80.75	85	89.25	330	1.5	2000	0.25	0.1	62	0.098
1N5269B	82.65	87	91.35	370	1.4	2200	0.25	0.1	68	0.099
1N5270B	96.45	91	95.55	400	1.4	2300	0.25	0.1	69	0.099
1N5271B	95	100	105	500	1.3	2600	0.25	0.1	76	0.099
1N5272B	104.5	110	115.5	750	1.1	3000	0.25	0.1	84	0.11
1N5273B	114	120	126	900	1.0	4000	0.25	0.1	91	0.11
1N5274B	123.5	130	136.5	1100	0.95	4500	0.25	0.1	99	0.11
1N5275B	133	140	147	1300	0.90	4500	0.25	0.1	106	0.11
1N5276B	142.5	150	157.5	1500	0.85	5000	0.25	0.1	114	0.11
1N5277B	152	160	168	1700	0.80	5500	0.25	0.1	122	0.11
1N5278B	161.5	170	178.5	1900	0.74	5500	0.25	0.1	129	0.11
1N5279B	171	180	189	2200	0.68	6000	0.25	0.1	137	0.11

V_F Forward Voltage = 1.2V Max. @ $I_F = 200\text{mA}$

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