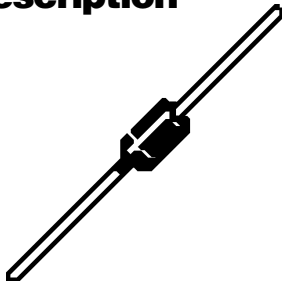


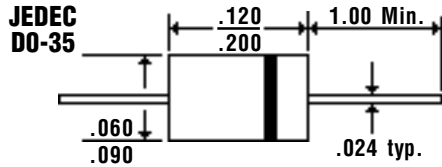
**1/2 Watt
ZENER DIODES (4.7V to 62V)**

1N5230...5265 Series

Description



Mechanical Dimensions



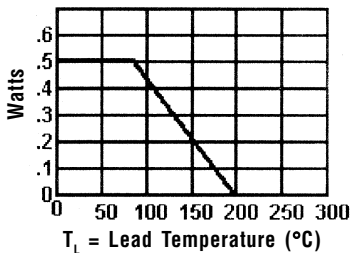
Features

- 5 & 10% VOLTAGE TOLERANCES AVAILABLE

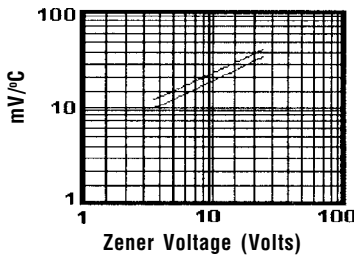
- WIDE VOLTAGE RANGE
- MEETS UL SPECIFICATION 94V-0

Maximum Ratings	1N5230...5265 Series	Units
DC Power Dissipation with $T_L = > = 75^\circ\text{C}$... P_D	500	mW
Lead Length = .375 Inches Derate Above 50 °C	4	mW / °C
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 100	°C

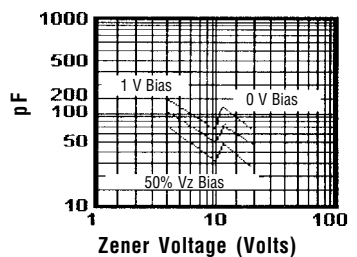
Steady State Power Derating



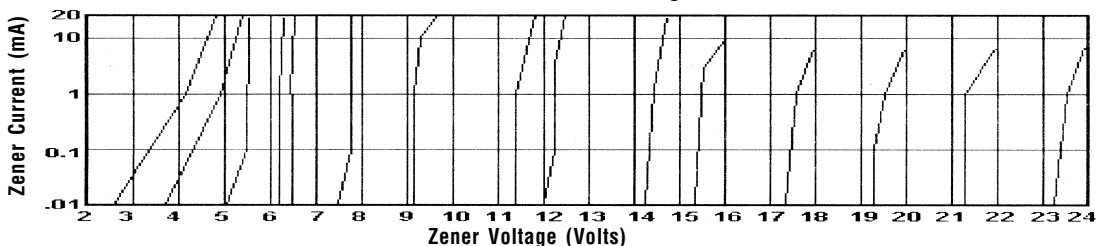
Temperature Coefficients vs. Voltage



Typical Junction Capacitance



Zener Current vs. Zener Voltage



- NOTES:** 1. For 10% Tolerance on Zener Voltage, Specify Suffix "A". For 5% Tolerance, Specify Suffix "B". (Example: 1N5230B = 4.7V +/- 5%)
 2. $T_A = 25^\circ\text{C}$ unless otherwise specified. Measurements made at Thermal Equilibrium.

Lead Length = .375". Thermal Resistance of Heat Sink = $30^\circ\text{C} / \text{W}$, $V_F = 1.1\text{V Max.}$ @ $I_F = 200\text{mA}$

Electrical Characteristics @ 25°C.

Part # Jedec Type #	Nominal Zener Voltage	Test Current Izt Max	MAX. ZENER IMPEDANCE		MAX. REVERSE LEAKAGE CURRENT		MAX ZENER VOLTAGE
			Zzt @ Izt Ohms	Zzk @ Izk=0.25mA Ohms	I _r (μA)	V _r	Temp. Coeff. 0 VZ (%/°C)
1N5230A or B	4.7	20	19	1900	5	2	+/- 0.03
1N5231A or B	5.1	20	17	1600	5	2	+/- 0.03
1N5232A or B	5.6	20	11	1600	5	3	+ 0.038
1N5233A or B	6.0	20	7	1600	5	3.5	+ 0.038
1N5234A or B	6.2	20	7	1000	5	4	+ 0.045
1N5235A or B	6.8	20	5	750	5	5	+ 0.050
1N5236A or B	7.5	20	6	500	3	6	+ 0.058
1N5237A or B	8.2	20	8	500	3	6.5	+ 0.062
1N5238A or B	8.7	20	8	600	3	6.5	+ 0.065
1N5239A or B	9.1	20	10	600	3	7	+ 0.068
1N5240A or B	10	20	17	600	3	8	+ 0.075
1N5241A or B	11	20	22	600	2	8.4	+ 0.076
1N5242A or B	12	20	30	600	1	9.1	+ 0.077
1N5243A or B	13	9.5	13	600	.5	9.9	+ 0.079
1N5244A or B	14	9.0	15	600	.1	10	+ 0.082
1N5245A or B	15	8.5	16	600	.1	11	+ 0.082
1N5246A or B	16	7.8	17	600	.1	12	+ 0.083
1N5247A or B	17	7.4	19	600	.1	13	+ 0.084
1N5248A or B	18	7.0	21	600	.1	14	+ 0.085
1N5249A or B	19	6.6	23	600	.1	15	+ 0.086
1N5250A or B	20	6.2	25	600	.1	16	+ 0.086
1N5251A or B	22	5.6	29	600	.1	17	+ 0.087
1N5252A or B	24	5.2	33	600	.1	18	+ 0.088
1N5253A or B	25	5.0	35	600	.1	19	+ 0.089
1N5254A or B	27	4.6	41	600	.1	21	+ 0.090
1N5255A or B	28	4.5	44	600	.1	21	+ 0.091
1N5256A or B	30	4.2	49	600	.1	23	+ 0.091
1N5257A or B	33	3.8	58	700	.1	25	+ 0.092
1N5258A or B	36	3.4	70	700	.1	27	+ 0.093
1N5259A or B	39	3.2	80	800	.1	30	+ 0.094
1N5260A or B	43	3.0	93	900	.1	33	+ 0.095
1N5261A or B	47	2.7	105	1000	.1	36	+ 0.095
1N5262A or B	51	2.5	125	1100	.1	39	+ 0.096
1N5263A or B	56	2.2	150	1300	.1	43	+ 0.096
1N5264A or B	60	2.1	170	1400	.1	46	+ 0.097
1N5265A or B	62	2.0	185	1400	.1	47	+ 0.097