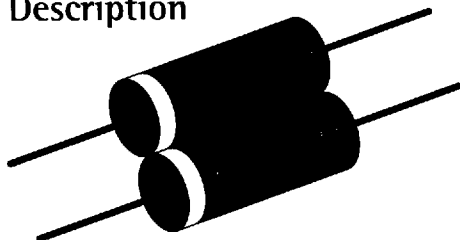


1N5230...52 Series

1N5230...52 Series

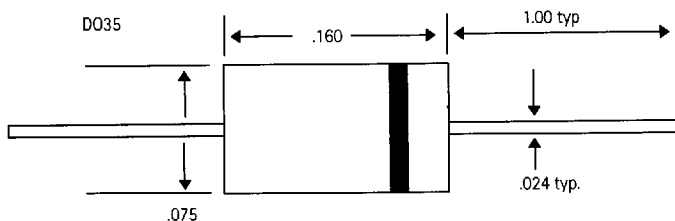
1/2 Watt Zener Diodes (4.7V to 24V)

Description



Mechanical Details

all dimensions in inches



Features:

- Wide Voltage Range
- 5 Et 10% Voltage Tolerances Available
- Meets or exceeds UL Flammability Specification 94V-0

Ratings

P_D	DC Power Dissipation with $T_I = \geq 75^\circ\text{C}$	500 mW
	Lead length = .375 inches	
	Derate above 50°C	4 mW/ $^\circ\text{C}$
T_j	Operating temperature	-65 to +100 degC
T_{stg}	Storage temperature range	-65 to +100 degC

1N5230...52 Series

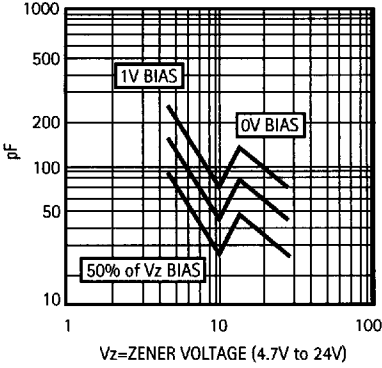
Device	Nominal Zener Voltage	Test Current Izt Max	Max Zener Impedance		Max reverse leakage current (Ir)		Max Zener Voltage Temp Coeff 0 VZ / (%°C)
			Zzt @ Izt Ohms	Zzt @ Izk = 0.25 mA Ohms	Ir uA	Vr	
1N5230A or B	4.7	20	19	1900	5	2	+/-0.03
1N5231A or B	5.1	20	17	1600	5	2	+/-0.03
1N5232A or B	5.6	20	11	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	+0.05
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

Notes:

- For 10% tolerance on Zener Voltage, specify suffix "A". For 5% tolerance, specify "B"
Eg. 1N4728B = 4.7V +/- 5%
- Ta = 25°C unless otherwise specified. Measurements made at thermal equilibrium.
Lead length = .375". Thermal resistance of Heat Sink = 30°C/W, Vf = 1.1V max/ @ If = 200 mA

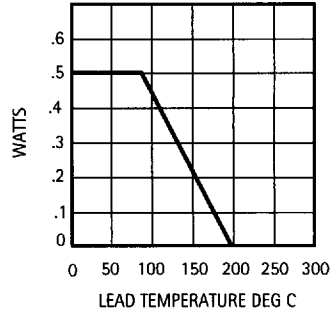
1N5230...52 Series

Typical Junction Capacitance



1N5230...52 Series

Steady State Power Derating



Temperature Coefficient vs Voltage

