

**500mW 5% DO-35 ZENER DIODE**

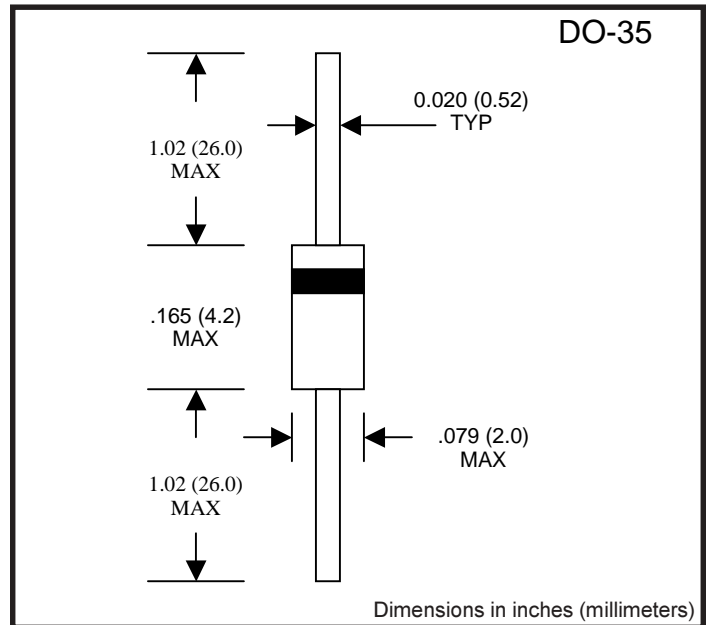
**Absolute Maximum Ratings (Ta=25°C)**

Items	Symbol	Ratings	Unit
Power Dissipation	$P_{TOT}$	500	mW
Power Derating above 75°C		4	K/mW
Forward Voltage @ $I_f = 10$ mA	$V_f$	1.2	V
Vz Tolerance		5	%
Junction Temp.	$T_J$	-65 to 175	°C
Storage Temp.	$T_{STG}$	-65 to 175	°C

**Mechanical Data**

Items	Materials
Package	DO-35
Case	Hermetically sealed glass
Lead Finish	Double Stud/Solder Plating
Chip	Glass Passivated

**Dimensions**



**Electrical Characteristics (Ta=25°C)**

Type	ZENER VOLTAGE	Max ZENER IMPEDANCE	Max ZENER IMPEDANCE	Max ZENER IMPEDANCE	Max REVERSE CURRENT		TEMP. COEFF.
	$V_Z$ (V)	$I_{ZT}(m)$	$R_Z$ ( $\Omega$ )	$R_Z$ ( $\Omega$ ) $I_{ZT} = 0.25mA$	$V_R$ (V)	$I_R$ ( $\mu A$ )	$dv_z$ (% / °C)
1N5223	2.7	20	30	1300	0.95	75	-0.080
1N5224	2.8	20	30	1400	0.95	75	-0.080
1N5225	3.0	20	29	1600	0.95	50	-0.075
1N5226	3.3	20	28	1600	0.95	25	-0.070
1N5227	3.6	20	24	1700	0.95	15	-0.065
1N5228	3.9	20	23	1900	0.95	10	-0.060
1N5229	4.3	20	22	2000	0.95	5.0	+0.055
1N5230	4.7	20	19	1900	1.9	5.0	+0.030
1N5231	5.1	20	17	1600	1.9	5.0	+0.030
1N5232	5.6	20	11	1600	2.9	5.0	+0.038
1N5233	6.0	20	7.0	1600	3.3	5.0	+0.038
1N5234	6.2	20	7.0	1000	3.8	5.0	+0.045
1N5235	6.8	20	5.0	750	4.8	3.0	+0.050
1N5236	7.5	20	6.0	500	5.7	3.0	+0.058
1N5237	8.2	20	8.0	500	6.2	3.0	+0.062

Type	ZENER VOLTAGE	Max ZENER IMPEDANCE	Max ZENER IMPEDANCE	Max ZENER IMPEDANCE $I_{ZT} = 0.25mA$	Max REVERSE CURRENT		TEMP. COEFF.
	$V_Z$ (V)	$I_{ZT}(m)$	$R_Z$ ( $\Omega$ )	$R_Z$ ( $\Omega$ )	$V_R$ (V)	$I_R$ ( $\mu A$ )	$dv_z$ (% / $^{\circ}C$ )
1N5238	8.7	20	8.0	600	6.2	3.0	+0.065
1N5239	9.1	20	10	600	6.7	3.0	+0.068
1N5240	10	20	17	600	7.6	3.0	+0.075
1N5241	11	20	22	600	8.0	2.0	+0.076
1N5242	12	20	30	600	8.7	1.0	+0.077
1N5243	13	9.5	13	600	9.4	0.5	+0.079
1N5244	14	9.0	15	600	9.5	0.1	+0.082
1N5245	15	8.5	16	600	10.5	0.1	+0.082
1N5246	16	7.8	17	600	11.4	0.1	+0.083
1N5247	17	7.4	19	600	12.4	0.1	+0.084
1N5248	18	7.0	21	600	13.3	0.1	+0.085
1N5249	19	6.6	23	600	13.3	0.1	+0.086
1N5250	20	6.2	25	600	14.3	0.1	+0.086
1N5251	22	5.6	29	600	16.2	0.1	+0.087
1N5252	24	5.2	33	600	17.1	0.1	+0.088
1N5253	25	5.0	35	600	18.1	0.1	+0.089
1N5254	27	4.6	41	600	20	0.1	+0.090
1N5255	28	4.5	44	600	20	0.1	+0.091
1N5256	30	4.2	49	600	22	0.1	+0.091
1N5257	33	3.8	58	700	24	0.1	+0.092
1N5258	36	3.4	70	700	26	0.1	+0.093
1N5259	39	3.2	80	800	29	0.1	+0.094
1N5260	43	3.0	93	900	31	0.1	+0.095
1N5261	47	2.7	105	1000	34	0.1	+0.095
1N5262	51	2.5	125	1100	37	0.1	+0.096
1N5263	56	2.2	150	1300	43	0.1	+0.096
1N5264	60	2.1	170	1400	46	0.1	+0.097