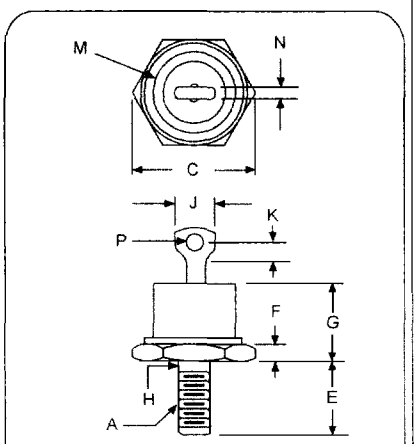
ZENER DIODES, 50 WATTS, DO-5 PACKAGE

JEDEC Part Number	Nominal Zener Voltage at I_{ZT}	Zener Test Current	Maximum Zener Impedance		Maximum Reverse Current at T_A=25°C			Max Zener Current	Typical Temperature Coefficient
			at I_{ZT} (mA)	at I_Z=5 0mA	V 1	V 2	I_R		
	V_Z (V)	I_{ZT} (mA)	Z_{ZT} (Ohms)	Z_{ZK} (Ohms)	(Volts)	(Volts)	(uA)	I_{ZM} (mA)	%/°C
1N3305	6.8	1850	0.2	70	4.5	4.3	150	6600	+0.040
1N3306	7.5	1700	0.3	70	5.0	4.7	75	5900	+0.045
1N3307	8.2	1500	0.4	70	5.4	5.2	50	5200	+0.048
1N3308	9.1	1370	0.5	70	6.1	5.7	25	4800	+0.051
1N3309	10	1200	0.6	80	6.7	6.3	10	4300	+0.055
1N3310	11	1100	0.8	80	8.4	8.0	5	3900	+0.060
1N3311	12	1000	1.0	80	9.1	8.6	5	3600	+0.065
1N3312	13	960	1.1	80	9.9	9.4	5	3300	+0.065
1N3313	14	890	1.2	80	10.6	10.1	5	3000	+0.070
1N3314	15	830	1.4	80	11.4	10.8	5	2800	+0.070
1N3315	16	780	1.6	80	12.2	11.5	5	2650	+0.070
1N3316	17	740	1.8	80	13.0	12.2	5	2500	+0.075
1N3317	18	700	2.0	80	13.7	13.0	5	2300	+0.075
1N3318	19	660	2.2	80	14.4	13.7	5	2200	+0.075
1N3319	20	630	2.4	80	15.2	14.4	5	2100	+0.075
1N3320	22	570	2.5	80	16.7	15.8	5	1900	+0.080
1N3321	24	520	2.6	80	18.2	17.3	5	1750	+0.080
1N3322	25	500	2.7	90	19.0	18.0	5	1550	+0.080
1N3323	27	460	2.8	90	20.6	19.4	5	1500	+0.085
1N3324	30	420	3.0	90	22.8	21.6	5	1400	+0.085
1N3325	33	380	3.2	90	25.1	23.8	5	1300	+0.085
1N3326	36	350	3.5	90	27.4	25.9	5	1150	+0.085
1N3327	39	320	4.0	90	29.7	28.1	5	1050	+0.090
1N3328	43	290	4.5	90	32.7	31.0	5	975	+0.090
1N3329	45	280	4.5	100	34.2	32.4	5	930	+0.090
1N3330	47	270	5.0	100	35.8	33.8	5	880	+0.090
1N3331	50	250	5.0	100	38.0	36.0	5	830	+0.090
1N3332	51	245	5.2	100	38.8	36.7	5	810	+0.090
1N3333	52	240	5.5	100	39.5	37.4	5	790	+0.090
1N3334	56	220	6.0	110	42.6	40.3	5	740	+0.090
1N3335	62	200	7.0	120	47.1	44.6	5	660	+0.090
1N3336	68	180	8.0	140	51.7	49.0	5	600	+0.090
1N3337	75	170	9.0	150	56.0	54.0	5	540	+0.090
1N3338	82	150	11	160	62.2	59.0	5	490	+0.090
1N3339	91	140	15	180	69.2	65.5	5	420	+0.090
1N3340	100	120	20	200	76.0	72.0	5	400	+0.090
1N3341	105	120	25	210	79.8	75.6	5	380	+0.095
1N3342	110	110	30	220	83.6	79.2	5	365	+0.095
1N3343	120	100	40	240	91.2	86.4	5	335	+0.095
1N3344	130	95	50	275	98.8	93.6	5	310	+0.095
1N3345	140	90	60	325	106.4	100.8	5	290	+0.095
1N3346	150	85	75	400	114.0	108.0	5	270	+0.095
1N3347	160	80	80	450	121.6	115.2	5	250	+0.095
1N3348	175	70	85	500	133.0	126.0	5	230	+0.095
1N3349	180	68	90	525	136.8	129.6	5	220	+0.095
1N3350	200	65	100	600	152.0	144.0	5	200	+0.100

Outline

Inches/millimeters



Dim	Inches Min	Inches Max	Millimeters Min	Millimeters Max	Notes
A	-	-	-	-	1/4-28
B	077	.687	17.19	17.44	
C	-	.793	-	20.14	
D	-	1.000	-	25.40	
E	.427	.447	10.84	11.35	
F	.125	.142	3.17	3.60	
G	-	.450	-	11.43	
H	.220	.249	5.59	6.32	
J	-	.375	-	9.52	5
K	.156	-	3.97	-	
M	-	.590	-	14.98	Dia
N	-	.080	-	2.03	
P	.140	.175	3.58	4.44	Dia

DO-5

MAXIMUM RATINGS *

Operating Temperature: -65 °C to +175 °C
Storage Temperature: -65 °C to +175 °C
DC Power Dissipation: 50 Watts at 75 °C
Power Derating: 0.5 W/°C above 75 °C
Forward Voltage 1.5 Volts Max at 10 Amps

Available standard polarity (Cathode Stud) and reverse polarity (Anode Stud - add Suffix "R")

Note 1: B Suffix voltage tolerance is ±5%
A Suffix is ± 10%
No Suffix is ±20%
Tolerances of ±2% and ±1% available on special order.

Note 2: V_{Z1} - Test Voltage for ±5% tolerance device.
V_{Z2} - Test Voltage for ±10% tolerance Device
No Leakage Specified for ±20% tolerance

Note 3: I_{ZM} = 50 Watts/$V_{Z\,Nom.}$ * Tolerance

Note 4: Z_{Z1} and Z_{ZK} impedances are derived from the 1kHz voltage created when an AC current with RMS value of ± 10% of DC zener test current is superimposed on the test current.