

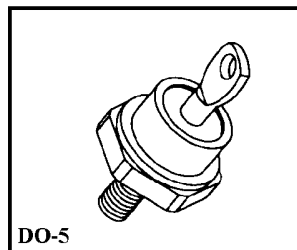
50 WATT SILICON ZENER DIODES

Available in Voltages from 3.9 V thru 200 V

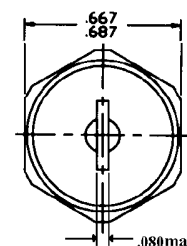
FEATURES:

- ZENER VOLTAGE 3.9 TO 200 V
- LOW ZENER IMPEDANCE
- HIGHLY RELIABLE AND RUGGED
- HERMETICALLY SEALED
- MATTE TIN PLATED
- CUSTOM DESIGNS AVAILABLE - CONSULT FACTORY

POLARITY: Standard polarity anode to case. Reverse polarity (cathode to case) indicated by suffix R. (EX. 1N3305RB).

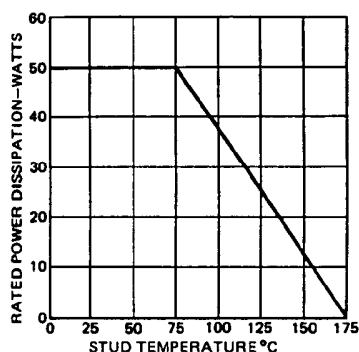
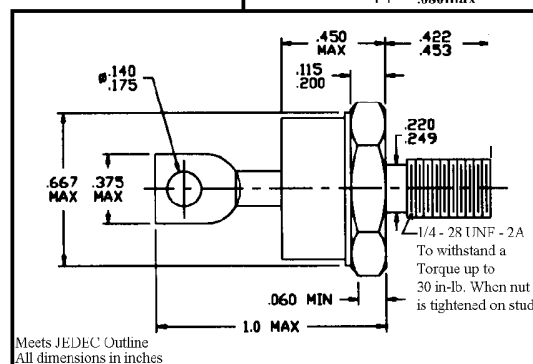


PACKAGE OUTLINE

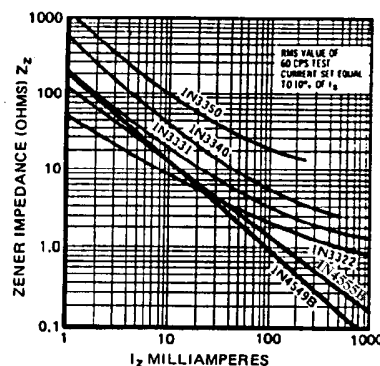


MAXIMUM RATINGS:

Junction and Storage Temperatures	-65°C to +175°C
DC Power Dissipation:	50 Watts
Power Derating:	0.5 W/° above 75°C
Forward Voltage @ 10 A:	1.5 Volts Max



Power Derating Curve



Typical Zener Impedance vs. Zener Current

NE002 1/96

NEW ENGLAND SEMICONDUCTOR

6 Lake Street Lawrence, MA 01841
1-800-446-1158 / (978) 794-1666 / FAX: (978) 689-0803

T4-4.8-860-1101 REV: --



NEC

NEW ENGLAND SEMICONDUCTOR

1N3305 thru 1N3350
1N4549 thru 1N4556

TYPE [^]	NOMINAL ZENER VOLTAGE V _Z @ I _{ZT} VOLTS	MAX. ZENER IMPEDANCE				MAX. REVERSE LEAKAGE			MAX. ZENER CURRENT I _{ZM} mA	TYP. TEMP COEFF. I _{ZT} %/°C
		Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _{R1} [*]		V _{R2} ^{**}		
		OHMS	mA	OHMS	mA	μA	VOLTS	VOLTS		
1N4549	3.9	0.16	3200	400	5	150	0.5	0.5	11900	-.025
1N4550	4.3	0.16	2900	500	5	150	0.5	0.5	10650	-.025
1N4551	4.7	0.12	2650	600	5	100	1.0	1.0	9700	.010
1N4552	5.1	0.12	2450	650	5	20	1.0	1.0	8900	.015
1N4553	5.6	0.12	2250	900	5	20	1.0	1.0	8100	.030
1N4554	6.2	0.14	2000	1000	5	20	2.0	2.0	7300	.045
1N4555	6.8	0.16	1850	200	5	10	2.0	2.0	6650	.045
1N4556	7.5	0.24	1650	100	5	10	3.0	3.0	6050	.053

1N3305	6.8	0.20	1850	70	5	150	4.5	4.3	6600	.040
1N3306	7.5	0.30	1700	70	5	75	5.0	4.7	5900	.045
1N3307	8.2	0.40	1500	70	5	50	5.4	5.2	5200	.048
1N3308	9.1	0.50	1370	70	5	25	6.1	5.7	4800	.051
1N3309	10.0	0.60	1200	80	5	10	6.7	6.3	4300	.055
1N3310	11.0	0.80	1100	80	5	5	8.4	8.0	3900	.060
1N3311	12.0	1.00	1000	80	5	5	9.1	8.6	3600	.065
1N3312	13.0	1.10	960	80	5	5	9.9	9.4	3300	.065
1N3313	14.0	1.20	890	80	5	5	10.6	10.1	3000	.070
1N3314	15.0	1.40	830	80	5	5	11.4	10.8	2800	.070
1N3315	16.0	1.60	780	80	5	5	12.2	11.5	2650	.070
1N3316	17.0	1.80	740	80	5	5	13.0	12.2	2500	.075
1N3317	18.0	2.00	700	80	5	5	13.7	13.0	2300	.075
1N3318	19.0	2.20	660	80	5	5	14.4	13.7	2200	.075
1N3319	20.0	2.40	630	80	5	5	15.2	14.4	2100	.075
1N3320	22.0	2.50	570	80	5	5	16.7	15.8	1900	.080
1N3321	24.0	2.60	520	80	5	5	18.2	17.3	1750	.080
1N3322	25.0	2.70	500	90	5	5	19.0	18.0	1550	.080
1N3323	27.0	2.80	460	90	5	5	20.6	19.4	1500	.085
1N3324	30.0	3.00	420	90	5	5	22.8	21.6	1400	.085
1N3325	33.0	3.20	380	90	5	5	25.1	23.8	1300	.085
1N3326	36.0	3.50	350	90	5	5	27.4	25.9	1150	.085
1N3327	39.0	4.00	320	90	5	5	29.7	28.1	1050	.090
1N3328	43.0	4.50	290	90	5	5	32.7	31.0	975	.090
1N3329	45.0	4.50	280	100	5	5	34.2	32.4	930	.090
1N3330	47.0	5.00	270	100	5	5	35.8	33.8	880	.090
1N3331	50.0	5.00	250	100	5	5	38.0	36.0	830	.090
1N3332	51.0	5.20	245	100	5	5	38.8	36.7	810	.090
1N3333	52.0	5.50	240	100	5	5	39.5	37.4	790	.090
1N3334	56.0	6.00	220	110	5	5	42.6	40.3	740	.090
1N3335	62.0	7.00	200	120	5	5	47.1	44.6	660	.090
1N3336	68.0	8.00	180	140	5	5	51.7	49.0	600	.090
1N3337	75.0	9.00	170	150	5	5	56.0	54.0	540	.090
1N3338	82.0	11.00	150	160	5	5	62.2	59.0	490	.090
1N3339	91.0	15.00	140	180	5	5	69.2	65.5	420	.090
1N3340	100.0	20.00	120	200	5	5	76.0	72.0	400	.090
1N3341	105.0	25.00	120	210	5	5	79.8	75.6	380	.095
1N3342	110.0	30.00	110	220	5	5	83.6	79.2	365	.095
1N3343	120.0	40.00	100	240	5	5	91.2	86.4	335	.095
1N3344	130.0	50.00	95	270	5	5	98.8	93.6	310	.095
1N3345	140.0	60.00	90	325	5	5	106.4	100.8	290	.095
1N3346	150.0	75.00	85	400	5	5	114.0	108.0	270	.095
1N3347	160.0	80.00	80	450	5	5	121.6	115.2	250	.095
1N3348	175.0	85.00	70	500	5	5	133.0	126.0	230	.095
1N3349	180.0	90.00	68	525	5	5	136.8	129.6	220	.095
1N3350	200.0	100.00	65	600	5	5	152.0	144.0	200	.100

[^] Suffix 'A' represents ±10% Tolerance.

[^] Suffix 'B' represents ±5% Tolerance.

[^] No Suffix -- represents ±20% Tolerance.

^{**} V_{R2} - test voltage for I_R

^{*} V_{R1} - test voltage for I_R

No I_R specified for this device

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