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SANTA ANA, CA

SCOTTSDALE, AZ For more information call: (602) 941-6300 1N3305 thru 1N3350B and 1N4549B thru 1N4556B

> SILICON 50 WATT

ZENER DIODES

FEATURES

- ZENER VOLTAGE 3.9 TO 200V
- LOW ZENER IMPEDANCE
- HIGHLY RELIABLE AND RUGGED
- FOR MILITARY AND OTHER DEMANDING APPLICATIONS (See Below)

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

*ELECTRICAL CHARACTERISTICS @ 30°C Case Temperature

JEDEC	NOMINAL ZENER VOLTAGE	ZENER IMPEDANCE (Note 3			MAX. DC LEAI		REVERSE KAGE** RRENT	TYPICAL Temp.
TYPE NO.	¥, @ L,	CURRENT	Z. @ I.	Zzk@	CURRENT		IX] @ VB	COEFF.
(Note 1)	Volts (Note 2)	(1,,) mA		Izk = 5mA	(1,) mA	-	Luci Te	α_{vz}
(11010-1)	INDIE 2/	Ť	OHMS	OHMS	DIA	μ A	VOLTS	%/°C
+1N45498	3,9	3,200	0.16	400	11,900	150	0.5	-0.046
+1N4550B		2,900	0,16	500	10,650	150	0,5	-0.033
+1N45518 +1N45528	4./ 5.1	2,650 2,450	0.12	600 650	9,700	100 20	1.0	-0.015 ± 0.010
+1N45538		2,450	0,12	900	8,900	20	1.0	+0.030
+1N45548		2,000	0,14	1,000	7,300	20	2.0	+0.049
1N4555B		1,850	0,16	200	6,650	10	2,0	+0.053
1N4556B	7.5	1,650	0,24	100	6,050	10	3,0	+0.057
÷ 1N3305 E		1,850	0.20	70	6,600	300	4,5	0.040
†1N3306		1,700	0.30	70	5,900	125	5.0	0.045
+1N3307 E +1N3308 E		1,500	0.40	70 70	5,200	50	5,4	0.048
+1N3308E		1,200	0.60	80	4,800 4,300	25 25	6,1 6,7	0.050
÷1N3310E		1,100	0.80	ŝõ	3,900	10	8.4	0.060
						10		_
÷1N3311B		1,000	1.00	80	3,800	10	9.1	0.065
+1N3312E 1N3313E		960	1,10	80	3,300	10	9.9	0.065
+1N3314B		890 830	1.20	80 80	3,000	10	11.4	0.070
+1N3315 B		780	1.60	80	2,650	10 10	12.2	0.070
1N3316B		740	1,80	80	2,500	10	13.0	0.075
+ 1N3317E	18.0	700	2.00	80	2,300	10	13.7	0.075
1N3318E		660	2.20	80 80	2,200	10	13.7	0.075
+1N3319E		630	2,40	80	2,100	10	15.2	0,075
+1N3320E	22.0	570	2.50	80	1,900	10	16.7	0.080
+1N3321 B		520	2,60	80	1,750	10	18,2	0,080
1N3322 B	25.0	500	2,70	90	1,550	10	18,2	0,080
+1N3323B	27.0	460	2,80	90	1,500	10	20.6	0.085
+1N3324B		420	3,00	90	1,400	10	22.8	0.085
÷ 1N3325 B ÷ 1N3326 B		380 350	3.20 3.50	90 90	1,300	10	25.1 27.4	0.085
+1N3326B		320	4,00	90	1,150	10 10	29.7	0,085
+1N3328B		290	4.50	90	975	10	32.7	0.090
1N3329B	45,0	280	4,50	100	930	10	32,7	0.090
+1N3330B		270	5,00	100	880	10	35.8	0.090
1N3331B	50.0	250	5.00	100	830	10	38,8	0,090
+1N3332B		245	5.20	100	810	10	38,8	0.090
1N3333B	52.0	240 220	5.50	100	790	10	42.6	0,090
+1N3334B	56.0	220	6.00	_110	740	10	42.6	0.090
+ 1N3335B	62,0	200	7.00	120	660	10	47.1	0.090
+ 1N3336B	68.0	180 170	8.00	140	600	10	51.7	0,090
⁴ 1N3337B ⁺ 1N3338B	75,0 82,0	150	9,00 11,00	150 160	540 490 i	10 10	56.0	0.090
1N3339B	91.0	140	15.00	180	490	10	62.2 69.2	0.090
+1N3340B	100.0	120	20,00	200	400	10	76.0	0,090
1N3341B	105.0	120	25,00	210	380	10	83.0	0.095
+ 1N3342B	110.0	110	30.00	220	365	10	83.0	0.095
+ 1N3343B	120.0	100	40.00	240	336	10	91.2	0,095
†1N3344B	130,0	95	50.00	275	310	10	99.8	0.095
1N3345B	140.0	90	60.00	325	290	10	114.0	0.095
+1N3346B	150.0	85	75.00	400	270	10	114.0	0.095
† 1N3347B	160.0	80	80.00	450	250	10	121.6	0,095
1N3348B	175.0	70	85.00	500	230	10	121.6	0.095
+ 1N3349B + 1N3350B	180.0 200.0	68 65	90,00	525	220	10	136.8	0.095
· 113350B	200.0	00	100.00	600	200	10	152.0	0,100

*JEDEC Registered Data.

**Not JEDEC Data.

[†] Have JAN and JANTX and TXV Qualifications to MIL-S-19500/ 358.

0.677 ± 0.010 17.196 = 0.254 0.080 MAX. 0.015 MIN. e 0.667 16.942 MAX. 0.375 9.525 MAX. 0.065 MIN 1.651 DIA. $\overline{\mathbf{o}}$ ŧ 1 0.937 MAX. 0.115/0.200 2.921/5.080 11.430 1 MAX. 1 â 1/4-28 UNF-2A TO WITHSTAND A TORQUE UP TO 30 IN-LB. WHEN NUT IS TIGHTENED ON STUD 0.453 MAX. 0.422 MIN.

FIGURE 1

All dimensions in $\frac{INCH}{m.m.}$

MECHANICAL CHARACTERISTICS

- CASE: Industry Standard DO-5, 11/16" Hex. stud with 1/4-28 threads, welded, hermetically sealed metal and glass.
- DIMENSIONS: See outline drawing Fig. 1.
- FINISH: All external surfaces are corrosion resistant and terminal solderable.
- THERMAL RESISTANCE: 1.5°C/W (Typical) junction to stud.
- POLARITY: Standard polarity anode to case. Reverse polarity (cathode to case) indicated by suffix R.
- MOUNTING HARDWARE: See page 2-9. 5-21

1N3305 thru 1N3350B, 1N4549B thru 1N4556B

NOTE 1

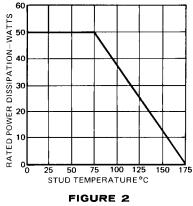
When using JEDEC numbers an R suffix should be used to signify reversed polarity. The suffixes A and B indicate tolerances of 10% and 5% respectively. No suffix or just R denotes \pm 20% tolerance. Example: 1N3319RB is a RE-VERSED polarity, 20 volt unit having a \pm 5% tolerance on Zener Voltage.

NOTE 2

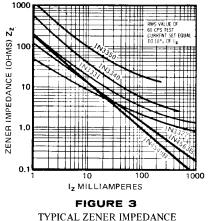
Zener Voltage (V_z) is measured with junction in thermal equilibrium with 30°C stud temperature.

NOTE 3

The zener impedance is derived from the 60 cycle A.C. voltage, which results when an A.C. current having an R.M.S. value equal to 10% of the D.C. zener current (I_{zt} or I_{zk}) is superimposed on I_{zt} or I_{zk} . Zener impedance is measured at 2 points to insure a sharp knee on the breakdown curve and to eliminate unstable units. A curve showing the variation of zener impedance vs. zener current for three representative types is shown in Figure 3.







vs. ZENER CURRENT

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