Table 28. General-Purpose Regulator Diodes (continued)

Nominal Zener Voltage	10 Watt Cathode to Case = 183993 Series Anode to Case = 182970 Series	50 Watt Anode to Case
(*Note 1)	(*Notes 9,10)	(*Notes 9,10)
	Metal Case 56-03 (DO-203AA)	Metal Case 58-01 (DO-5 Type)
1.8	\\\	
2 2.2 2.4 2.5 2.7 2.8 3 3.3		
3.6 3.9 4.3 4.7 5.1 5.6	1N3993&R 1N3994&R 1N3995&R 1N3996&R 1N3997&R	1N4549A&RA 1N4550A&RA 1N4551A&RA 1N4552A&RA 1N4552A&RA
6 6,2	1N3998&R	1N4554A&RA
6.8	1N3999&R	1N4555A&RA
7.5	1N2970A&RA 1N4000&R	1N3305A&RA 1N4556A&RA
	1N2971A&RA	1N3306A&RA
8.2 8.7	1N2972A&RA	1N3307A&RA
9.1	1N2973A&RA	1N3308A&RA
10	1N2974A&RA	1N3309A&RA
11	1N2975A&RA	1N3310A&RA
12	1N2976A&RA	1N3311A&RA
13 14	1N2977A&RA 1N2878A&RA	1N3312A&RA 1N3313A&RA
15 16	1N2979A&RA 1N2980A&RA	1N3314A&RA 1N3315A&RA
17 18	1N2982A&RA	1N3316A&RA 1N3317A&RA
19	1N2983A&RA	1N3318A&RA
20 22	1N2984A&RA 1N2985A&RA	1N3319A&RA 1N3320A&RA
24	1N2986A&RA	1N3321A&RA
25 27	1N2988A&RA	1N3322A&RA 1N3323A&RA
28 30	1N2989A&RA	1N3324A&RA
33 36	1N2990A&RA 1N2991A&RA	1N3325A&RA 1N3326A&RA
39	1N2992A&RA	1N3327A&RA
43 47	1N2993A&RA 1N2996A&RA	1N3328A&RA 1N33330A&RA
50 51	1N2997A&RA	1N3332A&RA
52 56	1N2999A&RA	1N3334A&RA 1N3335A&RA
60 62 68	1N3000A&RA 1N3001A&RA	1N3336A&RA
75 82 87	1N3002A&RA 1N3003A&RA	1N3337A&RA 1N3338A&RA
91 100 105	1N3004A&RA 1N3005A&RA	1N3339A&RA 1N3340A&RA
110	1N3007A&RA	1N3342A&RA
120 130	1N3008A&RA 1N3009A&RA	1N3343A&RA 1N3344A&RA
140 150 160	1N3011A&RA 1N3012A&RA	1N3345A&RA 1N3346A&RA 1N3347A&RA
170 175 180 200	1N3014A&RA 1N3015A&RA	1N3349A&RA 1N3350A&RA

NOTES

1. The zener voltage is measured at approximately 1/4 the rated power, with the following exceptions: the 1N4678-4717 is measured with I_{ZT} = $50~\mu$ Adc; the 1N4614/1N4099 is measured with I_{ZT} = $250 \mu Adc$; the 1N4370/1N746 and the 1N5221-5242 are measured with $I_{ZT} = 20 \text{ mAdc}$; the 1N5985A-6012A is measured with $I_{ZT} = 5$ mA; 1N6013A-6023A is measured with $I_{ZT} =$ 2 mA; 1N6024-6025 is measured with $I_{ZT} = 1 \text{ mA}.$

Tolerances

- 2. No suffix = $\pm 5\%$ C suffix = 2%D suffix = 1%
- 3. A Suffix $= \pm 10\%$ with guaranteed limits

on V_Z , V_F , and I_R only B suffix = $\pm 5\%$ C suffix = $\pm 2\%$

D suffix $= \pm 1\%$

4. MLL4370/1N4370/1N746 series:

No suffix = $\pm 10\%$ A suffix = $\pm 5\%$ C suffix = 2% D suffix = 1% MLL957/1N957 series: A suffix = $\pm 10\%$ B suffix = $\pm 5\%$ C suffix = 2%D suffix = 1%

Military parts in 1N4370/746/962/4099/4614/ 5518 series supplied in DO-7. Military parts in 1N4370/746/962/4099/4614/5518 are also available in the cost effective DO-204AH (DO-35) package as the -1 version. This version can be ordered by inserting a 1 between the part number and the JAN, JTX or JTXV suffix, i.e. 1N746A1JAN. MIL-STD 19500/117 and 127 state the -1 version is a direct substitute for the non -1 version. The -1 versions appear on MIL-STD 701 as the preferred parts for new

5. No suffix $= \pm 10\%$ with guaranteed limits on Vz, VF and IR only.

A suffix $= \pm 10\%$ B suffix $= \pm 5\%$

6. No suffix $= \pm 10\%$ A suffix $= \pm 5\%$ C suffix = 2%D suffix = 1%

7. 1N3821 series: No suffix $= \pm 10\%$ A suffix $= \pm 5\%$

A suffix $= \pm 10\%$ 1N3016 series: B suffix $= \pm 5\%$

8. A suffix = $\pm 10\%$ C suffix = $\pm 2\%$ B suffix $= \pm 5\%$ D suffix = $\pm 1\%$

9. A suffix = $\pm 10\%$ B suffix = $\pm 5\%$

Exception:

1N3993-1N4000: No suffix = $\pm 10\%$ A suffix $= \pm 5\%$

- 10. RA and RB = reverse polarity types available
- 11. Available in 8 mm tape and reel T1 cathode facing sprocket holes T2 anode facing sprocket holes
- 12. Available in 12 mm tape and reel T1 cathode facing sprocket holes T2 anode facing sprocket holes
- 13. Available in 8 mm tape and reel, both T1 and T2 options.

(A)(22)() 2) 23 5 5 1 1 **1 1 1**