

1N746-1N759

High-reliability discrete products and engineering services since 1977

SILICON PLANAR ZENER DIODES

FEATURES

- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number. ٠
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix. •

MAXIMUM RATINGS

Operating and Storage Temperature	-65 to +175°C
Thermal Resistance	250°C/W junction to lead at 3/8" lead length from body
Steady State Power	0.5 Watts at T _L ≤ 50°C
Forward Voltage @ 200mA	1.1 Volts
Solder Temperatures:	260°C for 10 s (max)

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Part Number (Note 1)	Normal Zener Voltage Vz @ IzT (Note 2) VOLTS	Zener Test Current I _{zt} mA	Maximum Zener Impedance Z _{2T} @ I _{2T} (Note 3) OHMS	Maximum Reverse Leakage Current V _R = 1 Volt		Maximum Zener Current I _{ZM} (Note 4)	Typical Temperature Coefficient Of Zener Voltage
				μΑ @ 25°C	μΑ @ 125°C	mA	%/°C
1N4370	2.4	20	30	100	200	150	085
1N4371	2.7	20	30	75	150	135	080
1N4372	3.0	20	29	50	100	120	075
1N746	3.3	20	28	10	30	110	066
1N747	3.6	20	24	10	30	100	058
1N748	3.9	20	23	10	30	95	046
1N749	4.3	20	22	2	30	85	033
1N750	4.7	20	19	2	30	75	015
1N751	5.1	20	17	1	20	70	±.010
1N752	5.6	20	11	1	20	65	+.030
1N753	6.2	20	7	0.1	20	60	+.049
1N754	6.8	20	5	0.1	20	55	+.053
1N755	7.5	20	6	0.1	20	50	+.057
1N756	8.2	20	8	0.1	20	45	+.060
1N757	9.1	20	10	0.1	20	40	+.061
1N758	10	20	17	0.1	20	35	+.062
1N759	12	20	30	0.1	20	30	+.062

Notes: 1. Suffix letter A denotes $\pm 5\%$ tolerance, suffix C denotes $\pm 2\%$ tolerance, & suffix D denotes $\pm 1\%$ tolerance.

2. Voltage measurements to be performed 20 seconds after application of dc current. 3. Zener impedance derived by superimposing on I_{ZT} , a 60cps, rms ac current equal to 10% I_{ZT} (2mA ac) 4. Allowance has been made for the increase in V_Z due to Z_Z and for the increase in junction temperature as the unit approaches thermal equilibrium at the power dissipation of 400mW.



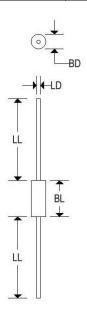
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MECHANICAL CHARACTERISTICS

Case:	DO-35 Glass
Marking:	Alpha Numeric
Polarity:	Cathode Band



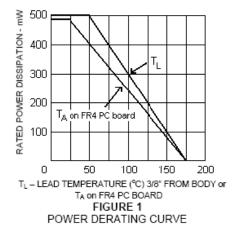
	DO-35						
	Inc	hes	Millimeters				
	Min	Max	Min	Max			
BD	0.055	0.090	1.400	2.290			
BL	0.120	0.200	3.050	5.080			
LD	0.018	0.022	0.460	0.560			
LL	1.000	1.500	25.400	38,100			



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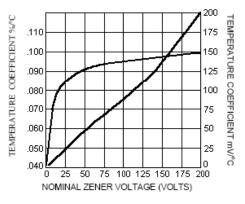


FIGURE 2 ZENER VOLTAGE TEMPERATURE COEFFICIENT vs. ZENER VOLTAGE

