

Designer's Data Sheet

500 Milliwatt

Hermetically Sealed

Glass Silicon Zener Diodes

- Complete Voltage Range — 2.4 to 200 Volts
- DO-204AH Package — Smaller than Conventional DO-204AA Package
- Double Slug Type Construction
- Metallurgically Bonded Construction

Mechanical Characteristics:

CASE: Double slug type, hermetically sealed glass

MAXIMUM LEAD TEMPERATURE FOR SOLDERING PURPOSES: 230°C, 1/16" from case for 10 seconds

FINISH: All external surfaces are corrosion resistant with readily solderable leads

POLARITY: Cathode indicated by color band. When operated in zener mode, cathode will be positive with respect to anode

MOUNTING POSITION: Any

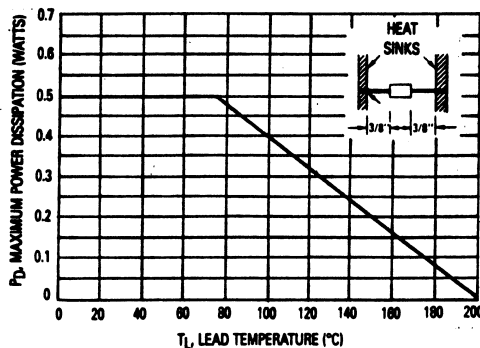


Figure 1. Steady State Power Derating

*MAXIMUM RATINGS

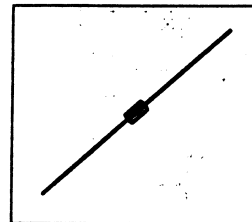
Rating	Symbol	Value	Unit
DC Power Dissipation @ $T_L \leq 75^\circ\text{C}$ Lead Length = 3/8" Derate above $T_L = 75^\circ\text{C}$	P_D	500 4	mW mW/°C
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-65 to +200	°C

*Indicates JEDEC Registered Data

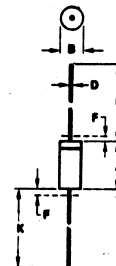
Designer's Data for "Worst Case" Conditions — The Designer's Data Sheet permits the design of most circuits entirely from the information presented. Limit curves — representing boundaries on device characteristics — are given to facilitate "worst case" design.

1N5221A, B
thru
1N5281A, B

GLASS ZENER DIODES
500 MILLIWATTS
2.4-200 VOLTS



OUTLINE DIMENSIONS



- NOTES:
1. PACKAGE CONTOUR OPTIONAL WITHIN A AND B. HEAT SLOTS, IF ANY, SHALL BE INCLUDED WITHIN THIS CYLINDER, BUT NOT SUBJECT TO THE MINIMUM LIMIT OF B.
 2. LEAD DIAMETER NOT CONTROLLED IN ZONE F TO ALLOW FOR FLASH, LEAD FINISH BUILDUP AND MINOR IRREGULARITIES OTHER THAN HEAT SLOTS.
 3. POLARITY DENOTED BY CATHODE BAND.
 4. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1973.

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.50	5.00	0.138	0.200
B	1.50	2.25	0.059	0.090
C	0.40	0.50	0.016	0.020
D	—	1.27	—	0.050
E	25.40	25.10	1.000	1.000

CASE 239-02
DO-204AH

