

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

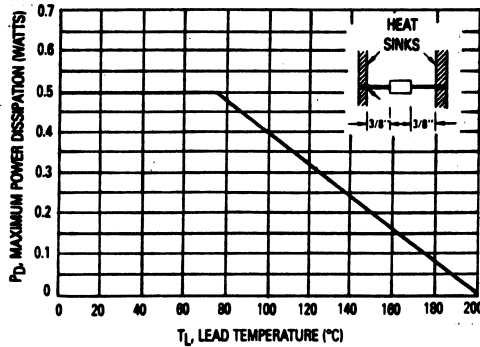


Figure 1. Steady State Power Derating

***MAXIMUM RATINGS**

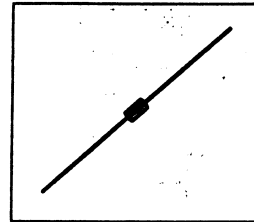
| Rating | Symbol | Value | Unit |
|--|----------------|-------------|-------------|
| DC Power Dissipation @ $T_L < 75^\circ\text{C}$ Lead Length = 3/8" Derate above $T_L = 75^\circ\text{C}$ | P_D | 500 4 | mW mW/°C |
| Operating and Storage Junction Temperature Range | T_J, T_{stg} | -65 to +200 |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

*Indicates JEDEC Registered Data

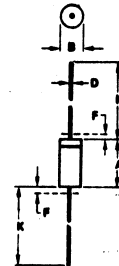
Designer's Data for "Worst Case" Conditions — The Designer's Data Sheet permits the design of most circuits entirely from the information presented. Limit curves — representing boundaries on device characteristics — are given to facilitate "worst case" design.

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 SLUGS.
 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 | 0.089 |
| C | 0.40 | 0.50 | 0.016 | 0.020 |
| F | — | 1.27 | — | 0.050 |
| H | 25.00 | 35.10 | 1.000 | 1.380 |

CASE 299-02
DO-204AH

