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**1N5221  
 thru  
 1N5281  
 DO-7**

OR

DO-35

**SILICON  
 500 mW  
 ZENER DIODES**

**FEATURES**

- 2.4 THRU 200 VOLTS
- COMPACT PACKAGE

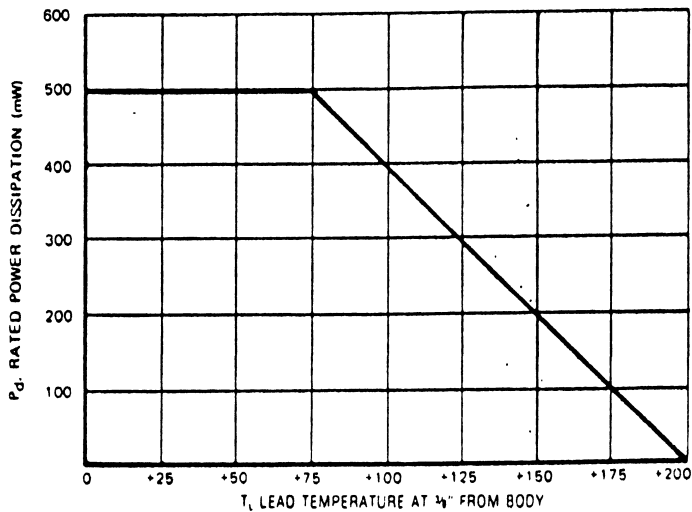
**MAXIMUM RATINGS**

Operating and Storage Temperature:  $-65^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$   
 DC Power Dissipation: 500 mW  
 Power Derating: 4.0 mW/ $^{\circ}\text{C}$  above  $75^{\circ}\text{C}$   
 Forward Voltage @ 200 mA: 1.1 Volts

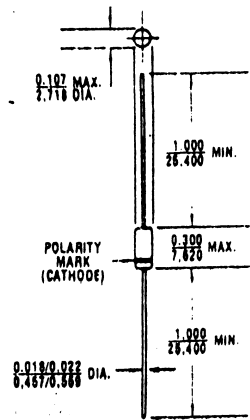
**ELECTRICAL CHARACTERISTICS**

See following page for table of parameter values. (Fig. 3)

Table as shown on following page (Fig. 3) lists JEDEC type numbers, which indicate a tolerance of  $\pm 20\%$  with guaranteed limits on only  $V_Z$ ,  $I_r$ , and  $V_f$ . Devices with guaranteed limits on all six parameters are indicated by suffix A for  $\pm 10\%$  tolerance and suffix B for  $\pm 5\%$  tolerance. Also available with suffix C or D which indicates 2% and 1% tolerance respectively.



**FIGURE 2**  
 POWER DERATING CURVE



**FIGURE 1**  
 All dimensions in INCH  
 m.m.

**MECHANICAL CHARACTERISTICS**

- CASE:** Hermetically sealed glass case. DO-7.
- FINISH:** All external surfaces are corrosion resistant and leads solderable.
- THERMAL RESISTANCE:**  $300^{\circ}\text{C}/\text{W}$  (Typical) junction to lead at 0.375-inches from body.
- POLARITY:** Diode to be operated with the banded end positive with respect to the opposite end.



Quality Semi-Conductors