

# New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.  
SPRINGFIELD, NEW JERSEY 07081  
U.S.A.

TELEPHONE: (201) 376-2922  
(212) 227-6005  
FAX: (201) 376-8960

## PARAMETERS

1N4560RB  
REF/REG DIODE,  $10W < P(D)$

Description: Ref/Reg Diode,  $10W < P(D)$

|                            |      |
|----------------------------|------|
| Manufacturer.....          |      |
| Mil/High-Rel? (Y/N).....   |      |
| Nom. Ref. Volt.....        | 5.1  |
| Test Current.....          | 2.5m |
| Tol. (%).....              | 5    |
| PD Max. (W).....           | 50%  |
| Dyn. Zmax (j).....         | .12  |
| Temp Coef pp/10k.....      | 3.5  |
| Oper. Temp (°C) Max.....   | 175  |
| Pkg Style.....             | TO-3 |
| Surface Mounted (Y/N)..... | N    |

### MAXIMUM RATINGS

Junction and Storage Temperature:  $-85^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$ .

DC Power Dissipation: 50 Watts. (Derate 0.5 W/°C above  $75^{\circ}\text{C}$ ).

**TOLERANCE DESIGNATION:** The type numbers shown have a standard tolerance of  $\pm 20\%$  on the nominal zener voltage. Add suffix "A" for  $\pm 10\%$  units or "B" for  $\pm 5\%$  units. (2% and 1% tolerance also available).

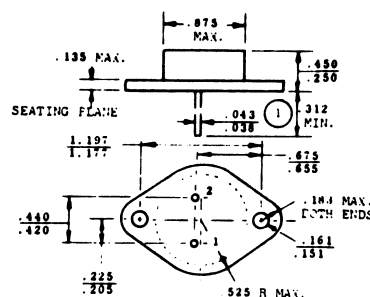
**CASE 54 APPLICATIONS INFORMATION:** If these units are used with a socket, the unregulated line should be connected to one pin through a suitable current limiting resistor and the load should be connected to the other pin. The load will now be disconnected from the line if the unit is removed from the socket.

Typical circuit connections for anode-to-case and cathode-to-case polarities (standard and reverse polarities, respectively) are shown below.

% @ above  $125^{\circ}\text{C}$  2 It(rms)

## ZENER DIODES

Units are available with anode-to-case and cathode-to-case connections (standard and reverse polarity). For reverse polarity, add suffix "R" to type number.



TO3 Note: 1. Two Leads



Quality Semi-Conductors