

New Jersey Semi-Conductor Products, Inc.

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

TELEPHONE: (973) 376-2922  
(212) 227-6005  
FAX: (973) 376-8960

# GERMANIUM DIODES

Gold Bonded Germanium Diodes in DO-7 Package

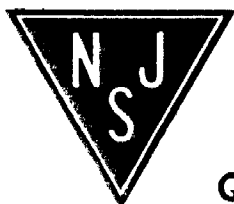
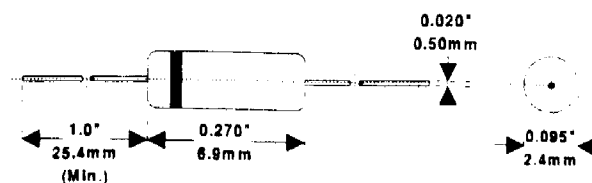
| Type     | Peak<br>Inverse<br>Voltage<br>(MIN.)<br>(PIV)<br>Volts | Maximum<br>Forward Voltage Drop |               | Maximum<br>Reverse leakage current |                  | Maximum<br>Reverse<br>Recovery<br>( $t_r$ )<br>nS |
|----------|--------------------------------------------------------|---------------------------------|---------------|------------------------------------|------------------|---------------------------------------------------|
|          |                                                        | ( $V_F$ )<br>Volts              | @ $I_F$<br>mA | ( $I_R$ )<br>$\mu A$               | @ $V_R$<br>Volts |                                                   |
| AA113    | 65                                                     | 1.1                             | 10            | 180                                | 60               | -                                                 |
| AA117    | 90                                                     | 0.18                            | 0.1           | 280                                | 90               | -                                                 |
| AA118    | 90                                                     | 1.0                             | 5             | 80                                 | 90               | -                                                 |
| AA119    | 45                                                     | 1.5                             | 10            | 2.8                                | 3                | -                                                 |
| AA138    | 25                                                     | 1.5                             | 10            | 2                                  | 25               | -                                                 |
| AA143    | 30                                                     | 0.5                             | 15            | 20                                 | 20               | 70                                                |
| AA144    | 100                                                    | 1.0                             | 5             | 200                                | 75               | -                                                 |
| AAZ15    | 100                                                    | 0.45                            | 10            | 100                                | 1                | 350                                               |
| AAZ17    | 75                                                     | 0.45                            | 10            | 300                                | 1                | 350                                               |
| AAZ18    | 40                                                     | 0.75                            | 200           | 40                                 | 1                | -                                                 |
| OA47     | 25                                                     | 0.45                            | 10            | 100                                | 25               | 70                                                |
| OA79     | 40                                                     | 2.2                             | 10            | 100                                | 36               | -                                                 |
| OA90 *   | 30                                                     | 1.0                             | 10            | 20                                 | 10               | -                                                 |
| OA91 *   | 100                                                    | 1.0                             | 10            | 11                                 | 10               | -                                                 |
| OA95 *   | 100                                                    | 1.0                             | 10            | 7                                  | 10               | -                                                 |
| OA99 *   | 45                                                     | 1.0                             | 100           | 18                                 | 10               | -                                                 |
| 1N34A    | 60                                                     | 1.0                             | 5             | 30                                 | 30               | -                                                 |
| 1N38A    | 100                                                    | 1.0                             | 40            | 50                                 | 50               | -                                                 |
| 1N60A    | 40                                                     | 1.0                             | 4             | 60                                 | 10               | -                                                 |
| 1N100A   | 80                                                     | 1.0                             | 40            | 50                                 | 50               | -                                                 |
| 1N270 ✓  | 100                                                    | 1.0                             | 200           | 100                                | 50               | -                                                 |
| 1N276 ✓  | 100                                                    | 1.0                             | 40            | 100                                | 50               | 300                                               |
| 1N277 ✓  | 125                                                    | 1.0                             | 100           | 250                                | 50               | -                                                 |
| 1N695    | 20                                                     | 1.0                             | 100           | 2                                  | 10               | 300. typ.                                         |
| 1N695A   | 25                                                     | 0.5                             | 10            | 2                                  | 10               | 300                                               |
| 1N933    | 100                                                    | 1.0                             | 14            | 10                                 | 10               | 400                                               |
| 1N949    | 50                                                     | 0.39                            | 10            | 10                                 | 10               | -                                                 |
| 1N3287 ✓ | 6                                                      | 0.3                             | 1             | 15                                 | 2                | -                                                 |
| 1N3592   | 25                                                     | 0.5                             | 15            | 4                                  | 4.5              | 40                                                |
| 1N3666 ✓ | 80                                                     | 1.0                             | 200           | 10                                 | 20               | 300                                               |
| 1N3773   | 25                                                     | 0.5                             | 15            | 4                                  | 3                | 40                                                |

Average power dissipation = 80 mW

Operating temperature = -65°C to 85°C

\* For matched pairs, use a 2- prefix. Pairs are grouped in 10 millivolt  $V_F$  cells, measured at 1 mA  $I_F$ .

## DO-7 Glass Package (nominal dimensions)



Quality Semi-Conductors