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## 400 V - 1,000 V Rectifiers

3.0 A Forward Current

70 ns Recovery Time

**1N6616 1N6617**  
**1N6618 1N6619**

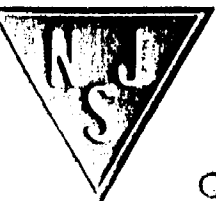
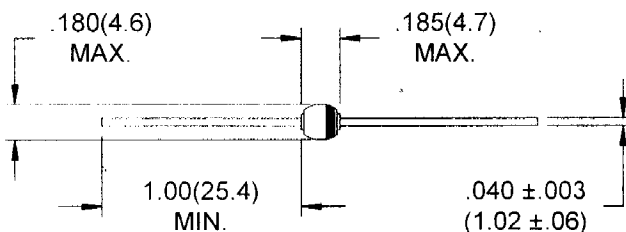
AXIAL LEADED  
 HERMETICALLY SEALED



### ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

| Part Number | Working Reverse Voltage<br>(V <sub>rw</sub> ) | Average Rectified Current<br>(I <sub>o</sub> ) |          | Reverse Current @ V <sub>rw</sub><br>(I <sub>r</sub> ) |       | Forward Voltage<br>(V <sub>f</sub> ) |      | 1 Cycle Surge Current<br>t <sub>p</sub> =8.3ms<br>(I <sub>fsm</sub> ) | Repetitive Surge Current<br>(I <sub>frm</sub> ) | Reverse Recovery Time<br>(3)<br>(T <sub>rr</sub> ) | Thermal Impedance<br>(θ <sub>J-L</sub> ) |      |      | Junction Cap.<br>@50VDC<br>@ 1kHz<br>(C <sub>j</sub> ) |       |       |       |
|-------------|---|--|----------|--|-------|--------------------------------------|------|---|---|--|--|------|------|--|-------|-------|-------|
|             |   | 55°C(1)  | 100°C(2) | 25°C   | 100°C | 25°C                                 |      |   |   |  | 25°C                                     | 25°C | 25°C |  | L=125 | L=375 | L=500 |
|             |   | Amps   | Amps     | µA   | µA    | Volts                                | Amps |   |   |  | Amps                                     | ns   | C/W  |  | C/W   | C/W   | pF    |
| 1N6616      | 400   | 3.0  | 2.0      | 1.0  | 20    | 1.7                                  | 3.00 | 100   | 20  | 70   | 9  | 20   | 25   | 35   |       |       |       |
| 1N6617      | 600   | 3.0  | 2.0      | 1.0  | 20    | 1.7                                  | 3.00 | 100   | 20  | 70   | 9  | 20   | 25   | 35   |       |       |       |
| 1N6618      | 800   | 3.0  | 2.0      | 1.0  | 20    | 1.7                                  | 3.00 | 100   | 20  | 70   | 9  | 20   | 25   | 35   |       |       |       |
| 1N6619      | 1000  | 3.0  | 2.0      | 1.0  | 20    | 1.7                                  | 3.00 | 100   | 20  | 70   | 9  | 20   | 25   | 35   |       |       |       |

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)I<sub>f</sub>=0.5A, I<sub>r</sub>=1.0A, I<sub>rr</sub>=0.25A • Op. Temp = -65°C to +175°C Stg. Temp. = -65°C to +200°C



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**Quality Semi-Products**