

# 400 V - 1,000 V Rectifiers

1.5 A Forward Current  
70 ns Recovery Time

1N6612 1N6613  
1N6614 1N6615

AXIAL LEADED  
HERMETICALLY SEALED

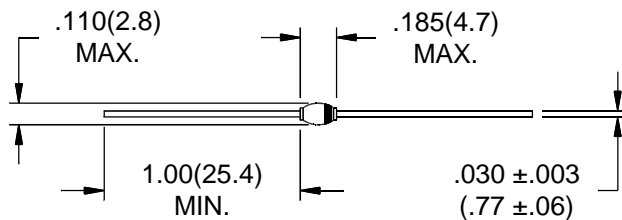


3

## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

| Part Number | Working Reverse Voltage<br>(Vrwm) | Average Rectified Current<br>(Io) |          | Reverse Current @ Vrwm<br>(Ir) |         | Forward Voltage<br>(Vf) |      | 1 Cycle Surge Current<br>tp=8.3ms<br>(Ifsm) | Repetitive Surge Current<br>(Ifrm) | Reverse Recovery Time<br>(3)<br>(Trr) | Thermal Impedance<br>$\theta_{J-L}$ |        |        | Junction Cap.<br>@50VDC<br>@ 1kHz<br>(Cj) |
|-------------|-----------------------------------|-----------------------------------|----------|--------------------------------|---------|-------------------------|------|---|------------------------------------|---------------------------------------|-------------------------------------|--------|--------|---|
|             |                                   | 55°C(1)                           | 100°C(2) | 25°C                           | 100°C   | 25°C                    | 25°C |   |                                    |                                       | 25°C                                | L=.125 | L=.375 |   |
|             | Volts                             | Amps                              | Amps     | $\mu$ A                        | $\mu$ A | Volts                   | Amps | Amps  | Amps                               | Amps                                  | ns                                  | °C/W   | °C/W   | °C/W                                      |
| 1N6612      | 400                               | 1.50                              | 0.75     | 1.0                            | 20      | 1.7                     | 1.00 | 25  | 5                                  | 70                                    | 18                                  | 38     | 45     | 16  |
| 1N6613      | 600                               | 1.50                              | 0.75     | 1.0                            | 20      | 1.7                     | 1.00 | 25  | 5                                  | 70                                    | 18                                  | 38     | 45     | 16  |
| 1N6614      | 800                               | 1.50                              | 0.75     | 1.0                            | 20      | 1.7                     | 1.00 | 25  | 5                                  | 70                                    | 18                                  | 38     | 45     | 16  |
| 1N6615      | 1000                              | 1.50                              | 0.75     | 1.0                            | 20      | 1.7                     | 1.00 | 25  | 5                                  | 70                                    | 18                                  | 38     | 45     | 16  |

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)If=0.5A, Ir=1.0A, Irr=0.25A • Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.



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