

2,500 V - 10,000 V Rectifiers

100 mA - 250 mA Forward Current

100 ns Recovery Time

X25UFG  
X50UFG  
X100UFG

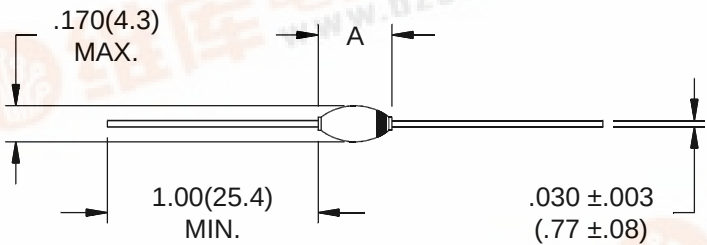
AXIAL LEADED  
HERMETICALLY SEALED



ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

| Part Number | Working Reverse Voltage<br>(V <sub>rrm</sub> ) | Average Rectified Current<br>(I <sub>o</sub> ) |          | Reverse Current @ V <sub>rrm</sub><br>(I <sub>r</sub> ) |       | Forward Voltage<br>(V <sub>f</sub> ) |     | 1 Cycle Surge Current<br>tp=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>$\theta_{J-L}$ |        |        | 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=000                               | L=.125 | L=.250 | 25°C                                                   |
|             | Volts                                          | mA                                             | mA       | µA                                                      | µA    | Volts                                | mA  | Amps                                                     | Amps                                            | ns                                                 | °C/W                                | °C/W   | °C/W   | pF                                                     |
| X25UFG      | 2500                                           | 250                                            | 125      | 1.0                                                     | 20    | 7.0                                  | 100 | 15                                                       | 3.0                                             | 100                                                | 5                                   | 12     | 21.5   | 4.0                                                    |
| X50UFG      | 5000                                           | 150                                            | 75       | 1.0                                                     | 20    | 9.0                                  | 100 | 10                                                       | 2.0                                             | 100                                                | 5                                   | 12     | 21.5   | 3.0                                                    |
| X100UFG     | 10000                                          | 100                                            | 50       | 1.0                                                     | 20    | 14.0                                 | 100 | 5                                                        | 1.0                                             | 100                                                | 5                                   | 12     | 21.5   | 2.0                                                    |

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)I<sub>f</sub>=125mA, I<sub>r</sub>=250mA, I<sub>rr</sub>=63mA • Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



| Part                        | A               |
|-----------------------------|-----------------|
| X25UFG<br>X50UFG<br>X100UFG | .350(8.89) MAX. |



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



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