

## 2,000 V - 15,000 V Rectifiers

50 mA - 420 mA Forward Current

30 ns - 50 ns Recovery Time

**X20FF3 - X150FF3**

**X20FF5 - X150FF5**

AXIAL LEADED

HERMETICALLY SEALED

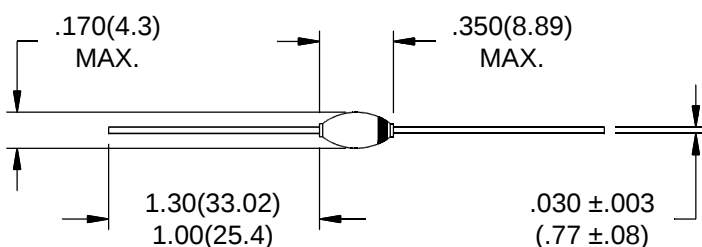


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### ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

| Part Number | Working Reverse Voltage | Average Rectified Current |          | Reverse Current @ Vrwm |       | Forward Voltage |      | 1 Cycle Surge Current tp=8.3ms (Ifsm) | Repetitive Surge Current (Ifrm) | Reverse Recovery Time (3) (Trr) | Thermal Impedance |        |        | Junction Cap. @50VDC @ 1kHz (Cj) |
|-------------|-------------------------|---------------------------|----------|------------------------|-------|-----------------|------|---------------------------------------|---------------------------------|---------------------------------|-------------------|--------|--------|----------------------------------|
|             | (Vrwm)                  | (Io)                      |          | (Ir)                   |       | (Vf)            |      | 25°C                                  | 25°C                            | 25°C                            | $\theta_{J-L}$    |        |        |                                  |
|             | Volts                   | 55°C(1)                   | 100°C(2) | 25°C                   | 100°C | 25°C            | 25°C | 25°C                                  | 25°C                            | 25°C                            | L=.000            | L=.125 | L=.250 | 25°C                             |
|             |                         | mA                        | mA       | µA                     | µA    | Volts           | mA   | Amps                                  | Amps                            | ns                              | °C/W              | °C/W   | °C/W   | pF                               |
| X20FF3      | 2000                    | 420                       | 210      | 1.0                    | 20    | 7.5             | 420  | 16.0                                  | 3.0                             | 30                              | 5                 | 12     | 21.5   | 4.0                              |
| X50FF3      | 5000                    | 150                       | 75       | 1.0                    | 20    | 12.5            | 150  | 10.0                                  | 1.0                             | 30                              | 5                 | 12     | 21.5   | 3.0                              |
| X100FF3     | 10000                   | 80                        | 40       | 1.0                    | 20    | 25.0            | 80   | 2.0                                   | 0.5                             | 30                              | 5                 | 12     | 21.5   | 2.0                              |
| X150FF3     | 15000                   | 50                        | 25       | 1.0                    | 20    | 37.5            | 50   | 1.6                                   | 0.3                             | 30                              | 5                 | 12     | 21.5   | 2.0                              |
| X20FF5      | 2000                    | 420                       | 210      | 1.0                    | 20    | 7.5             | 420  | 16.0                                  | 3.0                             | 50                              | 5                 | 12     | 21.5   | 4.0                              |
| X50FF5      | 5000                    | 150                       | 75       | 1.0                    | 20    | 12.5            | 150  | 10.0                                  | 1.0                             | 50                              | 5                 | 12     | 21.5   | 3.0                              |
| X100FF5     | 10000                   | 80                        | 40       | 1.0                    | 20    | 25.0            | 80   | 2.0                                   | 0.5                             | 50                              | 5                 | 12     | 21.5   | 2.0                              |
| X150FF5     | 15000                   | 50                        | 25       | 1.0                    | 20    | 37.5            | 50   | 1.6                                   | 0.3                             | 50                              | 5                 | 12     | 21.5   | 2.0                              |

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)If=125mA, Ir=250mA, Irr=63mA • 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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