

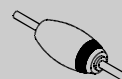
# 2,000 V - 10,000 V Rectifiers

180 mA - 1000 mA Forward Current

30 ns - 50 ns Recovery Time

**Z20FF3 Z20FF5**  
**Z50FF3 Z50FF5**  
**Z100FF3 Z100FF5**

AXIAL LEADED  
 HERMETICALLY SEALED

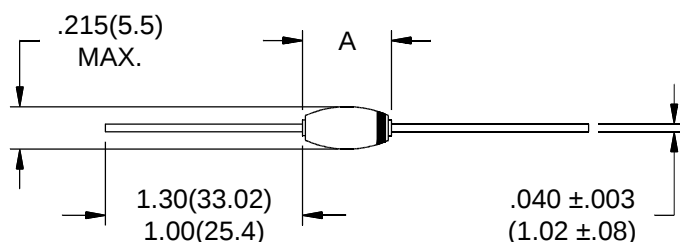


4

## 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                            | $\theta_{J-L}$    |        |        | 25°C                             |
|             | Volts                   | 55°C(1)                   | 100°C(2) | 25°C                   | 100°C | 25°C            | 25°C | Amps                                  | Amps                            | ns                              | L=.000            | L=.125 | L=.250 | pF                               |
| Z20FF3      | 2000                    | 1000                      | 750      | 1.0                    | 25    | 6.0             | 750  | 65.0                                  | 10.0                            | 30                              | 3                 | 6      | 12.0   | 20.0                             |
| Z50FF3      | 5000                    | 360                       | 180      | 1.0                    | 25    | 12.5            | 360  | 20.0                                  | 4.0                             | 30                              | 3                 | 6      | 12.0   | 16.0                             |
| Z100FF3     | 10000                   | 180                       | 90       | 1.0                    | 25    | 25.0            | 180  | 10.0                                  | 2.0                             | 30                              | 3                 | 6      | 12.0   | 8.0                              |
| Z20FF5      | 2000                    | 1000                      | 750      | 1.0                    | 25    | 6.0             | 750  | 65.0                                  | 10.0                            | 50                              | 3                 | 6      | 12.0   | 20.0                             |
| Z50FF5      | 5000                    | 360                       | 180      | 1.0                    | 25    | 12.5            | 360  | 20.0                                  | 4.0                             | 50                              | 3                 | 6      | 12.0   | 16.0                             |
| Z100FF5     | 10000                   | 180                       | 90       | 1.0                    | 25    | 25.0            | 180  | 10.0                                  | 2.0                             | 50                              | 3                 | 6      | 12.0   | 8.0                              |

(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



| Part             | A                |
|------------------|------------------|
| Z20FFX<br>Z50FFX | .350(8.89) MAX.  |
| Z100FFX          | .400(10.16) MAX. |



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



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## Z20FF3 - Z100FF3 Z20FF5 - Z100FF5

