

**600 V - 1,000 V Rectifiers**  
**3.0 A - 5.0A Forward Current**  
**150 ns - 3000 ns Recovery Time**

**Z06FG Z10FG**  
**Z06SG Z10SG**

**AXIAL LEADED**  
**HERMETICALLY SEALED**

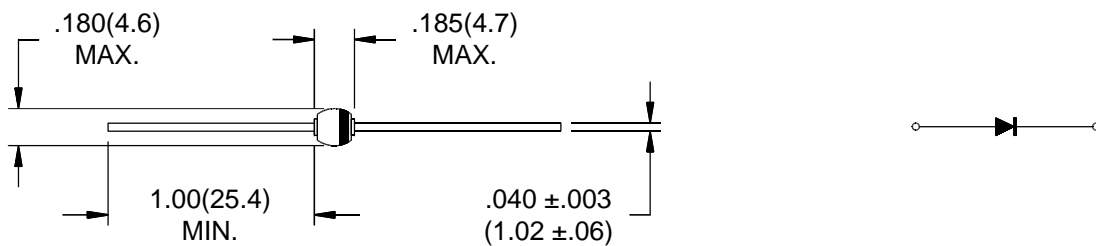


**3**

**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     |  |
|                | Volts   | Amps   | Amps       | µA   | µA       | Volts                                | Amps       | Amps  | Amps  | ns   | °C/W                                  | °C/W     | °C/W     | pF   |
| Z06FG<br>Z10FG | 600<br>1000                                   | 3.0<br>3.0                                     | 2.0<br>2.0 | 1.0<br>1.0   | 20<br>20 | 1.5<br>1.5                           | 3.0<br>3.0 | 100<br>100  | 20<br>20  | 150<br>150   | 9<br>9                                | 20<br>20 | 25<br>25 | 35<br>35   |
| Z06SG<br>Z10SG | 600<br>1000                                   | 5.0<br>5.0                                     | 2.0<br>2.0 | 1.0<br>1.0   | 20<br>20 | 1.3<br>1.3                           | 9.0<br>9.0 | 150<br>150  | 25<br>25  | 3000<br>3000                                       | 9<br>9                                | 20<br>20 | 25<br>25 | 35<br>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



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



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