

# 2,500 V - 16,000 V Rectifiers

10 mA - 100 mA Forward Current  
200 ns Recovery Time

**M25FG M50FG  
M100FG M160FG**

AXIAL LEADED  
HERMETICALLY SEALED

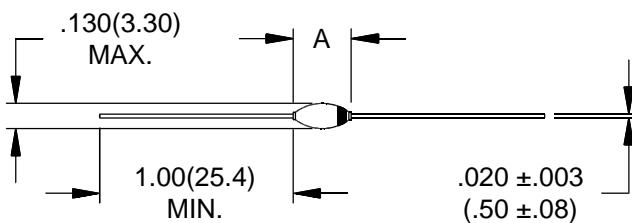


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## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

| 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>I <sub>fsm</sub><br>tp=8.3ms | 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 | 25°C |  | 25°C |
|             |   | Volts  | mA       | mA   | µA    | µA                                   | Volts |   |   |  | mA                                    | Amps | Amps |  | ns   |
| M25FG       | 2500  | 100  | 50       | 0.1  | 10    | 6.0                                  | 25    | 8.0   | 1.3   | 200  | 18                                    | 30   | 50.0 | 2.0  |      |
| M50FG       | 5000  | 50   | 25       | 0.1  | 10    | 8.0                                  | 25    | 4.0   | 0.8   | 200  | 18                                    | 30   | 50.0 | 1.0  |      |
| M100FG      | 10000   | 25   | 12       | 0.1  | 10    | 13.0                                 | 25    | 2.0   | 0.4   | 200  | 18                                    | 30   | 50.0 | 0.5  |      |
| M160FG      | 16000   | 10   | 5        | 0.1  | 10    | 35.0                                 | 10    | 1.0   | 0.2   | 200  | 33                                    | 45   | 65.0 | 0.5  |      |

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)I<sub>f</sub>=12.5mA, I<sub>r</sub>=25mA, I<sub>rr</sub>=6.3mA • Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



| Part                     | A               |
|--------------------------|-----------------|
| M25FG<br>M50FG<br>M100FG | .300(7.62) MAX. |
| M160FG                   | .350(8.89) MAX. |



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



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