

# 2,500 V - 10,000 V Rectifiers

100 mA - 250 mA Forward Current  
3000 ns Recovery Time

**X25SG**  
**X50SG**  
**X100SG**

AXIAL LEADED  
HERMETICALLY SEALED

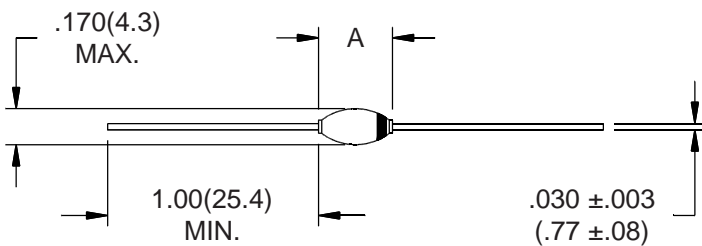


**4**

## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V <sub>rrm</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rrm</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current t <sub>p</sub> =8.3ms (I <sub>fsm</sub> )	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (3) (T <sub>rr</sub> )	Thermal Impedance θ <sub>J-L</sub>			Junction Cap. @50VDC @ 1kHz (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
		Volts	mA	mA	µA	µA	Volts				mA	Amps	Amps		ns	°C/W
X25SG	2500	250	125	1.0	20	6.0	100	15	3.0	3000	5	12	21.5	4.0		
X50SG	5000	150	75	1.0	20	8.0	100	10	2.0	3000	5	12	21.5	3.0		
X100SG	10000	100	50	1.0	20	13.0	100	5	1.0	3000	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
X25SG X50SG X100SG	.350(8.89) MAX.



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



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