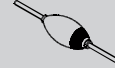


# 2,500 V - 16,000 V Rectifiers

10 mA - 100 mA Forward Current  
3000 ns Recovery Time

**M25SG M50SG**  
**M100SG M160SG**

AXIAL LEADED  
HERMETICALLY SEALED

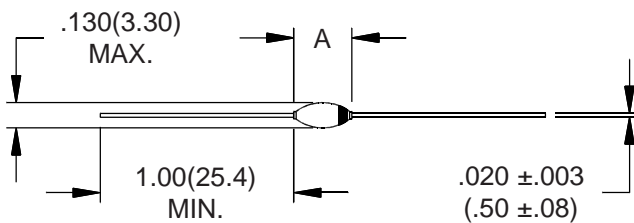


**4**

## ELECTRICAL CHARACTERISTICS AND MAXIMUM RATINGS

Part Number	Working Reverse Voltage (V <sub>rw</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rw</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	25 °C
	Volts	mA	mA	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
M25SG	2500	100	50	0.1	10	6.0	25	8.0	1.2	3000	18	30	50.0	2.0
M50SG	5000	50	25	0.1	10	8.0	25	4.0	0.8	3000	18	30	50.0	1.0
M100SG	10000	25	12	0.1	10	13.0	25	2.0	0.4	3000	18	30	50.0	0.5
M160SG	16000	10	5	0.1	10	35.0	10	0.5	0.1	3000	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
M25SG	
M50SG	.300(7.62) MAX.
M100SG	
M160SG	.350(8.89) MAX.



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



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# M25SG M50SG M100SG M160SG

