

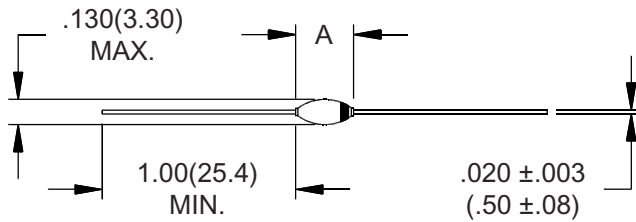
# Spice Model



**M160SG**



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 J-L			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	
	Volts	mAmps	mAmps	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
M160SG	16000	10	5	0.1	10	35	10	.5	0.1	3000	33	45	65	0.5



Part	A
M25SG M50SG M100SG	.300(7.62) MAX.
M160SG	.350(8.89) MAX.

<b>IS</b>	Reverse leakage current	1.00E-07	Amps
<b>N</b>	Emission coefficient	46.25	
<b>T</b>	Temperature	25	C
<b>RS</b>	Diode series resistance	2.5	Ohm
<b>TT</b>	Transit time	3000	nS
<b>CJ0</b>	Zero-bias junction capacitance	0.45	pF
<b>VJ</b>	Bulk junction potential	28.44	Volts
<b>M</b>	Grading coefficient	0.5	
<b>EG</b>	Energy-band gap	1.11	Volts
<b>XTI</b>	Temperature coefficient	3	
<b>KF</b>	Flicker-noise coefficient	0	
<b>AF</b>	Flicker-noise exponent	1	
<b>FC</b>	Coefficient for capacitance	0.5	
<b>BV</b>	Diode breakdown voltage	20000	Volts
<b>IBV</b>	Diode breakdown current	100	uAmps



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