

Spice Model

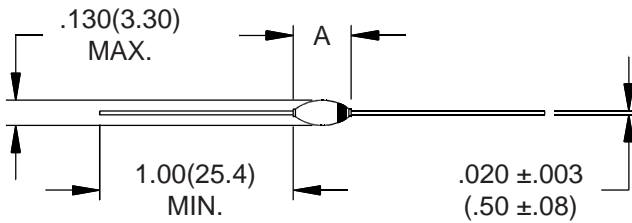


M100SG



Electrical Characteristics and Maximum Ratings

Part Number	Working Reverse Voltage (Vrwm)	Average Rectified Current (Io)		Reverse Current @ Vrwm (Ir)		Forward Voltage (Vf)		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impedance θJ-L			Junction Cap. @50VDC @ 1kHz (Cj)
		55°C(1)	100°C(2)	25°C	100°C	25°C					25°C	25°C	25°C	
	Volts	Amps	Amps	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
M100SG	10000	0.025	0.012	0.1	10	13.0	25	2.0	0.4	3000	18	30	50	0.5



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

Name	Parameter	Value	Units
IS	Reverse leakage current	1.00E-07	Amps
N	Emission coefficient	28.8	
T	Temperature	25	C
RS	Diode series resistance	0.3	Ohm
TT	Transit time	3000	nS
CJ0	Zero-bias junction capacitance	0.77	pF
VJ	Bulk junction potential	15.92	Volts
M	Grading coefficient	0.5	
EG	Energy-band gap	1.11	Volts
XTI	Temperature coefficient	3	
KF	Flicker-noise coefficient	0	
AF	Flicker-noise exponent	1	
FC	Coefficient for capacitance	0.5	
BV	Diode breakdown voltage	12000	Volts
IBV	Diode breakdown current	100	uAmps

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



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