

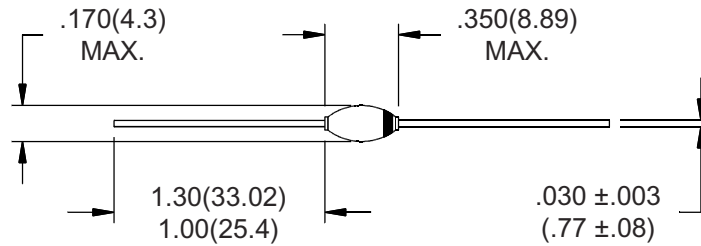
Spice Model



X100SG



Part Number	Working Reverse Voltage (V _{rw})	Average Rectified Current (I _o)		Reverse Current @ V _{rw} (I _r)		Forward Voltage (V _f)		1 Cycle Surge Current t _p =8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (3) (T _{rr})	Thermal Impedance J-L			Junction Cap. @50VDC @ 1kHz (C _j)
		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
X100SG	10000	100	50	1.0	20	13.0	100	5.0	1.0	3000	5	12	21.5	2.0



IS	Reverse leakage current	2.50E-07	Amps
N	Emission coefficient	28	
T	Temperature	25	C
RS	Diode series resistance	0.8	Ohm
TT	Transit time	3000	nS
CJ0	Zero-bias junction capacitance	1.50	pF
VJ	Bulk junction potential	19.79	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



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