

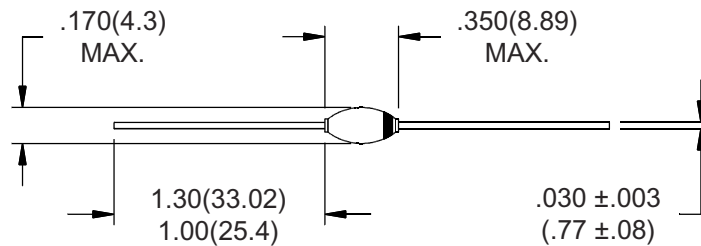
Spice Model



X150SG



Part Number	Working Reverse Voltage	Average Rectified Current		Reverse Current @ Vrwm		Forward Voltage		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impedance			Junction Cap. @50VDC @ 1kHz (Cj)
	(Vrwm)	(Io)		(Ir)		(Vf)					J-L			
	Volts	55°C(1) mAmps	100°C(2) mAmps	25°C µA	100°C µA	25°C Volts	25°C mA	25°C Amps	25°C Amps	25°C ns	L=.000 °C/W	L=.125 °C/W	L=.250 °C/W	25°C pF
X150SG	15000	50	25	1.0	20	20.0	100	1.0	0.5	3000	5	12	21.5	2



Parameter	Description	Value	Units
IS	Reverse leakage current	2.50E-07	Amps
N	Emission coefficient	39.5	
T	Temperature	25	C
RS	Diode series resistance	0.9	Ohm
TT	Transit time	3000	nS
CJ0	Zero-bias junction capacitance	1.19	pF
VJ	Bulk junction potential	26.18	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	17000	Volts
IBV	Diode breakdown current	100	uAmps



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