

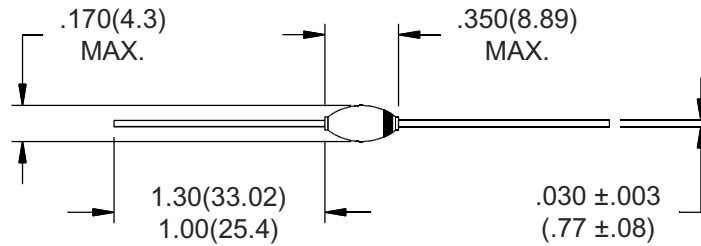
# Spice Model



**X150UFG**



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 J-L			Junction Cap. @50VDC @ 1kHz (Cj)
		55°C(1)	100°C(2)	25°C	100°C	25°C		25°C	25°C	25°C	25°C	L=.000	L=.125	L=.250
	Volts	mAmps	mAmps	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
X150UFG	15000	50	25	1.0	20	22.0	100	3.0	0.5	100	5	12	21.5	2



<b>IS</b>	Reverse leakage current	2.50E-07	Amps
<b>N</b>	Emission coefficient	46	
<b>T</b>	Temperature	25	C
<b>RS</b>	Diode series resistance	8	Ohm
<b>TT</b>	Transit time	100	nS
<b>CJ0</b>	Zero-bias junction capacitance	1.23	pF
<b>VJ</b>	Bulk junction potential	19.17	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	18000	Volts
<b>IBV</b>	Diode breakdown current	100	uAmps



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