

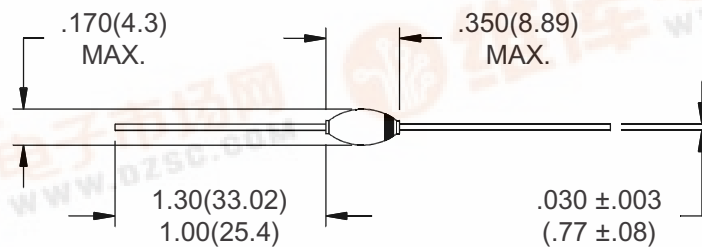
Spice Model



X50SG



Part Number	Working Reverse Voltage	Average Rectified Current		Reverse Current @ V _{rw}		Forward Voltage		1 Cycle Surge Current t _p =8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (3) (T _{rr})	Thermal Impedance			Junction Cap. @50VDC @ 1kHz (C _j)
	(V _{rw})	(I _o)		(I _r)		(V _f)					J-L			
		55°C(1)	100°C(2)	25°C	100°C	25°C		25°C	25°C	25°C	L=.000	L=.125	L=.250	25°C
	Volts	mAmps	mAmps	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
X50SG	5000	150	75	1.0	20	8.0	100	10.0	2.0	3000	5	12	21.5	3.0



Parameter	Description	Value	Units
IS	Reverse leakage current	2.50E-07	Amps
N	Emission coefficient	14.5	
T	Temperature	25	C
RS	Diode series resistance	1.4	Ohm
TT	Transit time	3000	nS
CJ0	Zero-bias junction capacitance	3.87	pF
VJ	Bulk junction potential	6.41	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	6000	Volts
IBV	Diode breakdown current	100	uAmps



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