

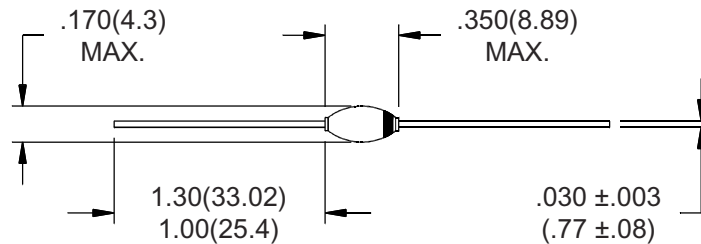
Spice Model



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			
	Volts	55°C(1) mAmps	100°C(2) mAmps	25°C µA	100°C µA	25°C Volts	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
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



Voltage Multipliers, Inc.
8711 W. Roosevelt Ave.
Visalia, CA 93291

Tel (559) 651-1402
Fax (559) 651-0740
www.voltagemultipliers.com