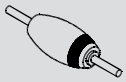
Spice Model

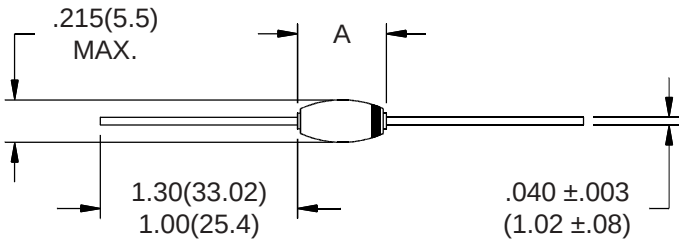


Z50FF5



Electrical Characteristics and Maximum Ratings

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 θ_{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	L=.000	L=.125	L=.250	25°C
	Volts	mAmps	mAmps	µA	µA	Volts	mAmps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
Z50FF5	5000	360	180	1.0	25	12.5	360	20.0	4.0	50	3	6	12	16



Part	A
Z20FFX Z50FFX	.350(8.89) MAX.
Z100FFX	.400(10.16) MAX.

Name	Parameter	Value	Units
I_S	Reverse leakage current	5.00E-07	Amps
N	Emission coefficient	22.3	
T	Temperature	25	C
RS	Diode series resistance	0.7	Ohm
TT	Transit time	50	nS
C_{J0}	Zero-bias junction capacitance	22.76	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

Dimensions: In. (mm) * All temperatures are ambient unless otherwise noted. * Data subject to change without notice.

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