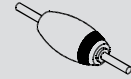


Spice Model

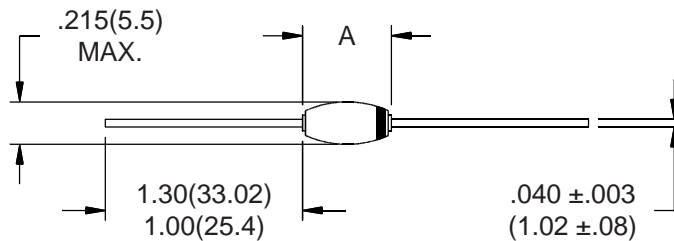


Z100FF3



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	25°C	L=.000	L=.125	L=.250
	Volts	MAmps	MAmps	μ A	μ A	Volts	MAmps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
Z100FF3	10000	180	90	1.0	25	25.0	180	10.0	2.0	30	3	6	12	8



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

Name	Parameter	Value	Units
I_s	Reverse leakage current	5.0E-07	Amps
N	Emission coefficient	70	
T	Temperature	25	C
RS	Diode series resistance	2.6	Ohm
TT	Transit time	30	nS
C_{j0}	Zero-bias junction capacitance	8.49	pF
VJ	Bulk junction potential	20.30	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	12000	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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