

## Spice Model

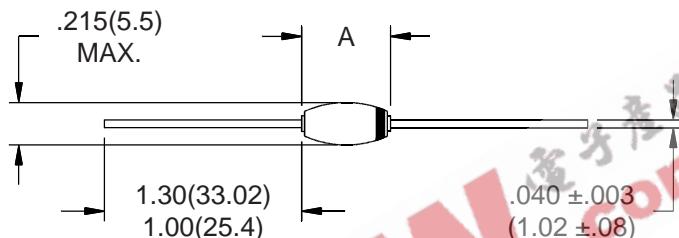


Z50FF5



### Electrical Characteristics and Maximum Ratings

Part Number	Working Reverse Voltage (Vrwm)	Average Rectified Current		Reverse Current @ Vrwm		Forward Voltage		1 Cycle Surge Current tp=8.3ms (Ifsm)	Repetitive Surge Current (Ifrm)	Reverse Recovery Time (3) (Trr)	Thermal Impedance $\theta_{J-L}$			Junction Cap. @50VDC @ 1KHZ (Cj)
		55°C(1)	100°C(2)	25°C	100°C	25°C	25°C				L=.000	L=.125	L=.250	
		Volts	mAmps	mAmps	μA	μA	Volts	mAmps	Amps	Amps	ns	°C/W	°C/W	°C/W
Z50FF5	5000	360	180	1.0	25	12.5	360	20.0	4.0	50	3	6	12	16



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



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

Tel (559) 651-1402  
Fax (559) 651-0740  
[www.voltagemultipliers.com](http://www.voltagemultipliers.com)