

Spice Model

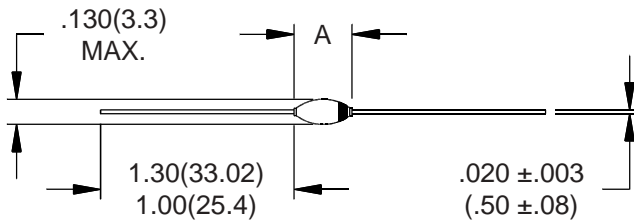


M50FF3



Electrical Characteristics and Maximum Ratings

Part Number	Working Reverse Voltage (V _{rw})	Average Rectified Current (I _o)		Reverse Current @ V _{rw} (I _r)		Forward Voltage (V _f)		1 Cycle Surge Current t _p =8.3ms (I _{fsm})	Repetitive Surge Current (I _{frm})	Reverse Recovery Time (3) (T _{rr})	Thermal Impedance θ _{J-L}			Junction Cap. @ 50VDC @ 1kHz (C _j)
		55°C(1)	100°C(2)	25°C	100°C	25°C					25°C	25°C	25°C	
	Volts	mAmps	mAmps	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
M50FF3	5000	40	20	0.1	10	12.5	40	2.0	0.4	30	18	30	50	1.0



Part	A
M50FFX M100FFX	.300(7.62) MAX.
M160FFX	.350(8.89) MAX.

Name	Parameter	Value	Units
IS	Reverse leakage current	1.00E-07	Amps
N	Emission coefficient	40	
T	Temperature	25	C
RS	Diode series resistance	20	Ohm
TT	Transit time	30	nS
CJ0	Zero-bias junction capacitance	1.25	pF
VJ	Bulk junction potential	9.64	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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