

# Spice Model



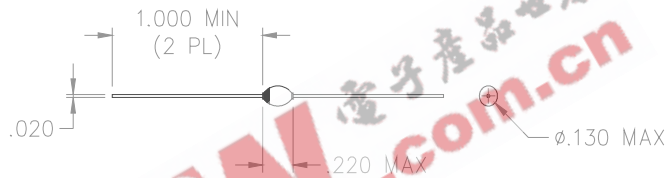
M10UFG



## Electrical Characteristics and Maximum Ratings

Part Number	Working Reverse Voltage (V <sub>rw</sub> )	Average Rectified Current (I <sub>o</sub> )		Reverse Current @ V <sub>rw</sub> (I <sub>r</sub> )		Forward Voltage (V <sub>f</sub> )		1 Cycle Surge Current tp=8.3ms (I <sub>fsm</sub> )	Repetitive Surge Current (I <sub>frm</sub> )	Reverse Recovery Time (3) (T <sub>rr</sub> )	Thermal Impedance θ <sub>J-L</sub>			Junction Cap. @ 50VDC @ 1kHz (C <sub>j</sub> )
		55°C(1)	100°C(2)	25°C	100°C	25°C		25°C	25°C	25°C	L=.125	L=.375	L=.500	25°C
	Volts	Amps	Amps	µA	µA	Volts	A	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
M10UFG	1000	0.75	0.40	0.1	10	1.7	.10	10	1.5	70	18	30	50	10

MARKINGS  
B  
M  
A  
1  
N  
O  
D  
S  
G



Name	Parameter	Value	Units
IS	Reverse leakage current	1.00E-07	Amps
N	Emission coefficient	4.2	
T	Temperature	25	C
RS	Diode series resistance	0.4	Ohm
TT	Transit time	70	nS
CJO	Zero-bias junction capacitance	9.54	pF
VJ	Bulk junction potential	1.23	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	1100	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