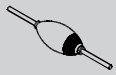
2,500 V - 16,000 V Rectifiers

10 mA - 100 mA Forward Current
100 ns Recovery Time

M25UFG M50UFG M100UFG M160UFG

AXIAL LEADED
HERMETICALLY SEALED

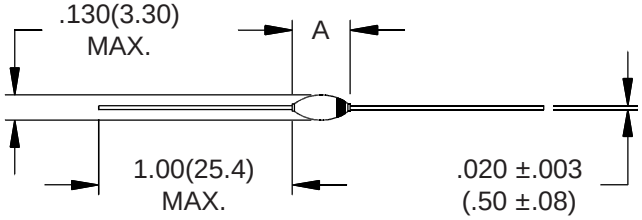


4

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	mA	mA	µA	µA	Volts	mA	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
M25UFG	2500	100	50	0.1	10	7.0	25	8.0	1.3	100	18	30	50.0	2.0
M50UFG	5000	50	25	0.1	10	9.0	25	4.0	0.8	100	18	30	50.0	1.0
M100UFG	10000	25	12	0.1	10	14.0	25	2.0	0.4	100	18	30	50.0	0.5
M160UFG	16000	10	5	0.1	10	35.0	10	1.0	0.2	100	33	45	65.0	0.5

(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)If=12.5mA, Ir=25mA, Irr=6.3mA • Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C



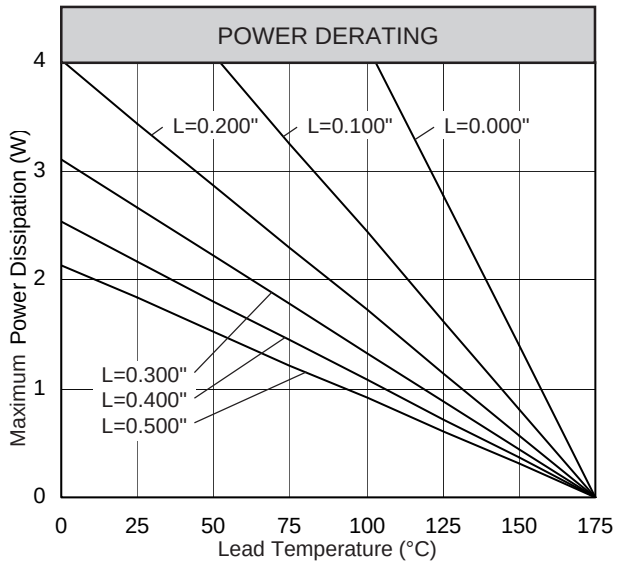
Part	A
M25UFG M50UFG M100UFG	.300(7.62) MAX.
M160UFG	.350(8.89) MAX.

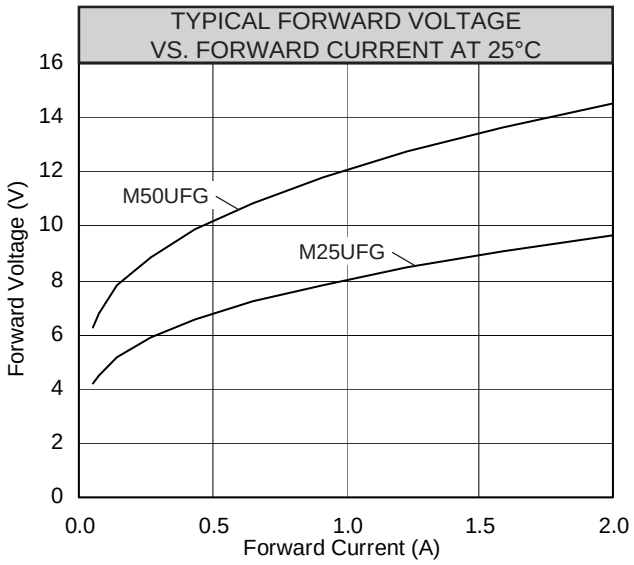


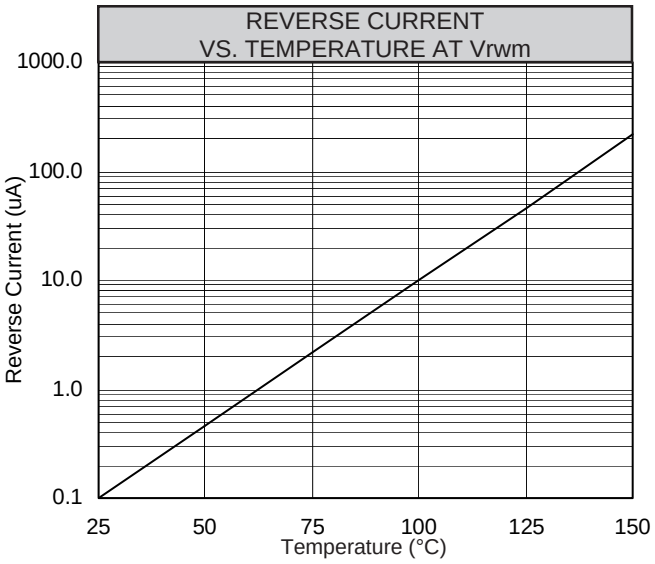
Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.

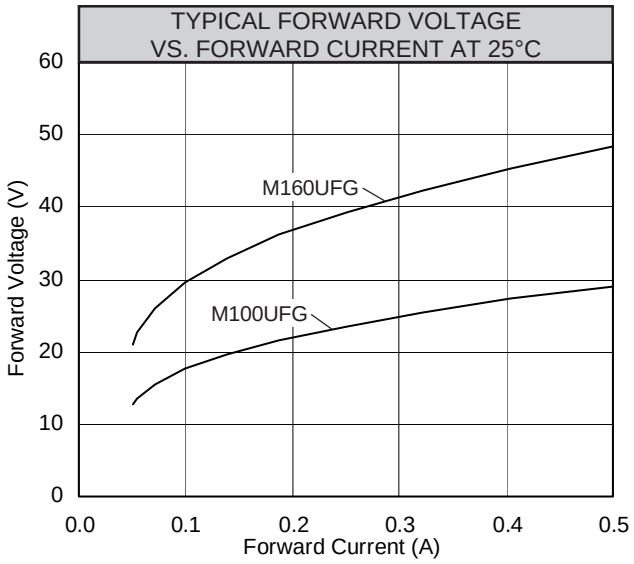
VOLTAGE MULTIPLIERS INC.
8711 W. Roosevelt Ave.
Visalia, CA 93291

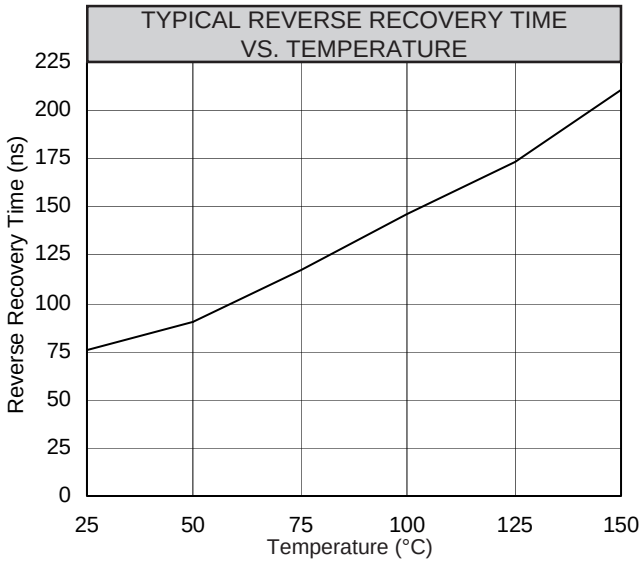
TEL 559-651-1402
FAX 559-651-0740
www.voltagemultipliers.com

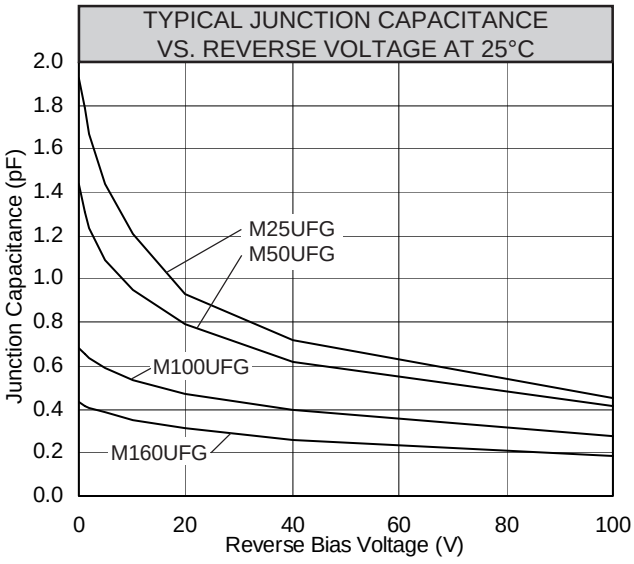

POWER DERATING
Maximum Power Dissipation (W)
Lead Temperature (°C)
L=0.200"
L=0.100"
L=0.000"
L=0.300"
L=0.400"
L=0.500"
0
1
2
3
4
0
25
50
75
100
125
150
175


TYPICAL FORWARD VOLTAGE
VS. FORWARD CURRENT AT 25°C
Forward Voltage (V)
Forward Current (A)
M50UFG
M25UFG
0
2
4
6
8
10
12
14
16
0.0
0.5
1.0
1.5
2.0


REVERSE CURRENT
VS. TEMPERATURE AT Vrwm
Reverse Current (uA)
Temperature (°C)
0.1
1.0
10.0
100.0
1000.0
25
50
75
100
125
150


TYPICAL FORWARD VOLTAGE
VS. FORWARD CURRENT AT 25°C
Forward Voltage (V)
Forward Current (A)
M160UFG
M100UFG
0
10
20
30
40
50
60
0.0
0.1
0.2
0.3
0.4
0.5


TYPICAL REVERSE RECOVERY TIME
VS. TEMPERATURE
Reverse Recovery Time (ns)
Temperature (°C)
0
25
50
75
100
125
150
175
200
225
25
50
75
100
125
150


TYPICAL JUNCTION CAPACITANCE
VS. REVERSE VOLTAGE AT 25°C
Junction Capacitance (pF)
Reverse Bias Voltage (V)
M25UFG
M50UFG
M100UFG
M160UFG
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
0
20
40
60
80
100