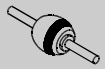
400 V - 1,000 V Rectifiers

3.0 A Forward Current
70 ns Recovery Time

1N6616 1N6617
1N6618 1N6619

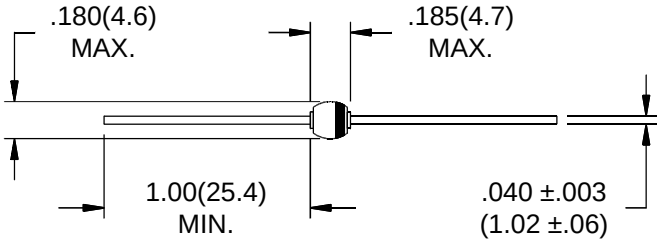
AXIAL LEADED
HERMETICALLY SEALED



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=.125	L=.375	L=.500	25°C
	Volts	Amps	Amps	µA	µA	Volts	Amps	Amps	Amps	ns	°C/W	°C/W	°C/W	pF
1N6616	400	3.0	2.0	1.0	20	1.7	3.00	100	20	70	9	20	25	35
1N6617	600	3.0	2.0	1.0	20	1.7	3.00	100	20	70	9	20	25	35
1N6618	800	3.0	2.0	1.0	20	1.7	3.00	100	20	70	9	20	25	35
1N6619	1000	3.0	2.0	1.0	20	1.7	3.00	100	20	70	9	20	25	35

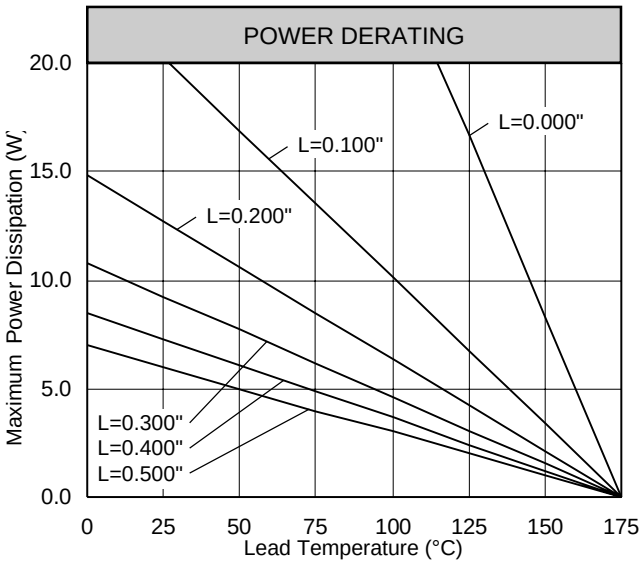
(1)TL=55°C L=0.375" (2)TL=100°C L=0.375" (3)If=0.5A, Ir=1.0A, Irr=0.25A • Op.Temp.= -65°C to +175°C Stg.Temp.= -65°C to +200°C

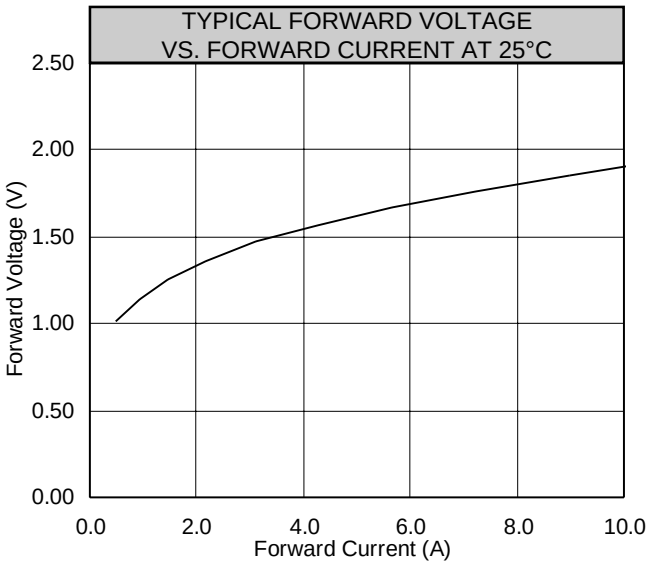


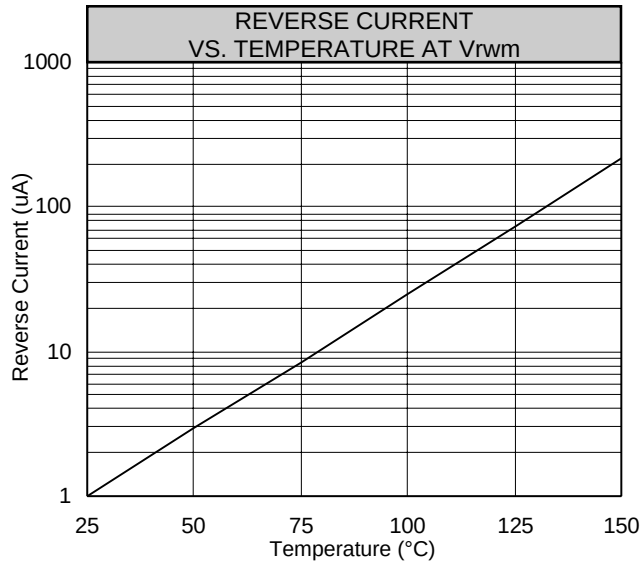
Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.

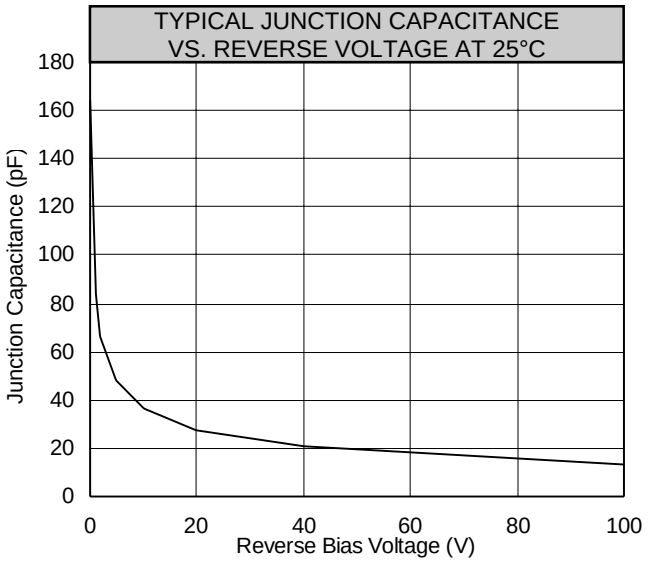
VOLTAGE MULTIPLIERS INC.
8711 W. Roosevelt Ave.
Visalia, CA 93291

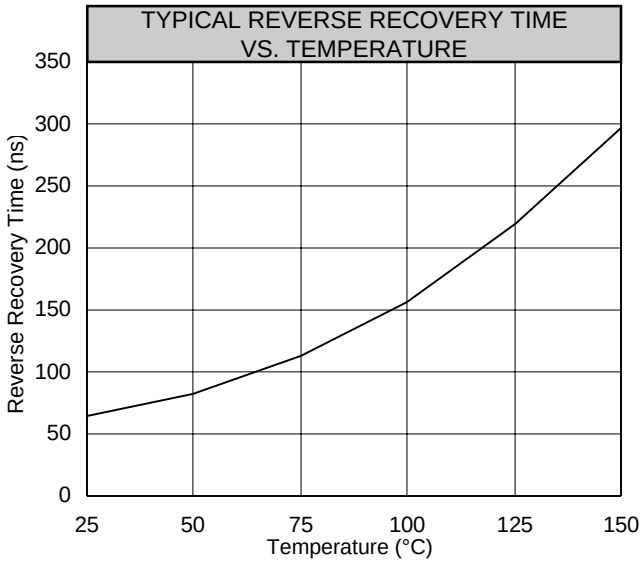
TEL 559-651-1402
FAX 559-651-0740
www.voltagemultipliers.com


POWER DERATING
Maximum Power Dissipation (W)
20.0
15.0
10.0
5.0
0.0
L=0.000"
L=0.100"
L=0.200"
L=0.300"
L=0.400"
L=0.500"
0
25
50
75
100
125
150
175
Lead Temperature (°C)


TYPICAL FORWARD VOLTAGE
VS. FORWARD CURRENT AT 25°C
Forward Voltage (V)
2.50
2.00
1.50
1.00
0.50
0.00
0.0
2.0
4.0
6.0
8.0
10.0
Forward Current (A)


REVERSE CURRENT
VS. TEMPERATURE AT Vrwm
Reverse Current (uA)
1000
100
10
1
25
50
75
100
125
150
Temperature (°C)


TYPICAL JUNCTION CAPACITANCE
VS. REVERSE VOLTAGE AT 25°C
Junction Capacitance (pF)
180
160
140
120
100
80
60
40
20
0
0
20
40
60
80
100
Reverse Bias Voltage (V)


TYPICAL REVERSE RECOVERY TIME
VS. TEMPERATURE
Reverse Recovery Time (ns)
350
300
250
200
150
100
50
0
25
50
75
100
125
150
Temperature (°C)