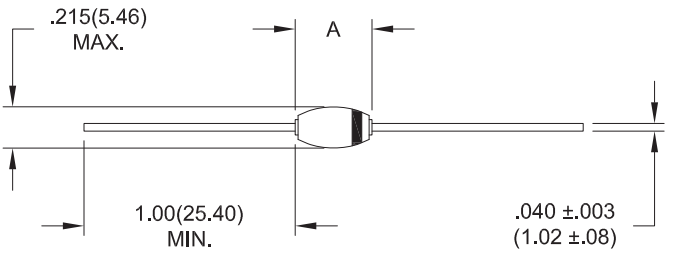
High Voltage Diodes - Axial Lead

300mA - 1500mA • 100ns • Hermetic

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
Z25UFG	2500	1500	1000	1.0	25	7.5	2000	60.0	10.0	100	3	6	12	20.0
Z50UFG	5000	1000	500	1.0	25	10.5	1000	40.0	8.0	100	3	6	12	16.0
Z100UFG	10000	500	250	1.0	25	14.0	600	25.0	5.0	100	3	6	12	8.0
Z150UFG	15000	300	150	1.0	25	22.0	300	10.0	2.0	100	3	6	12	5.0

(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

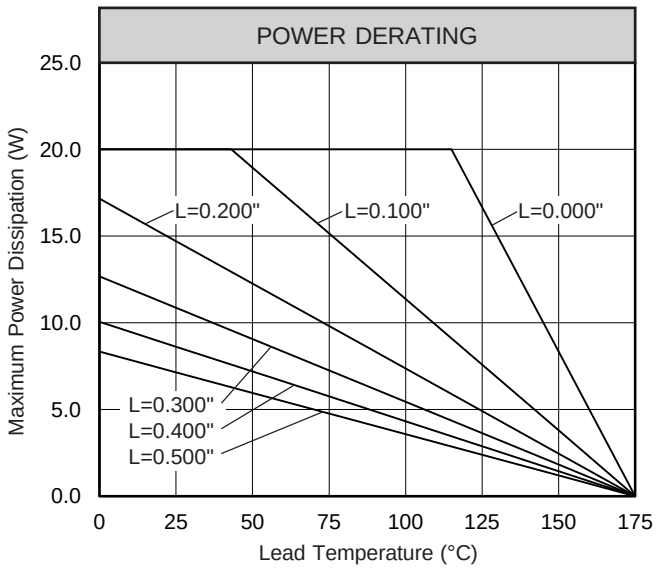


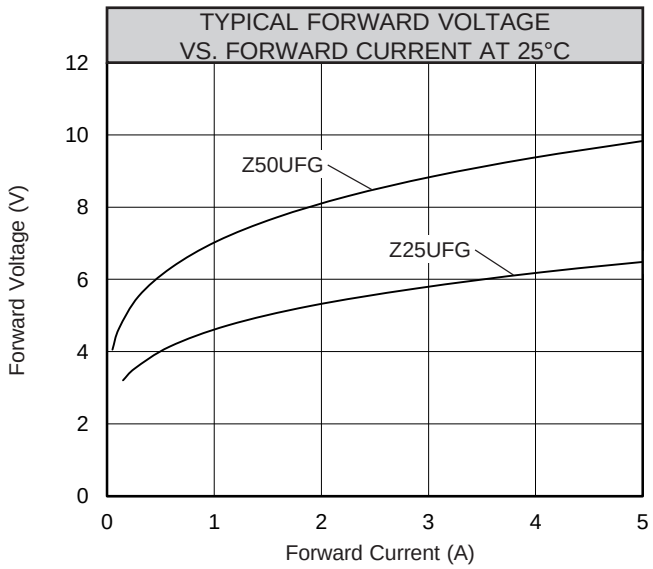


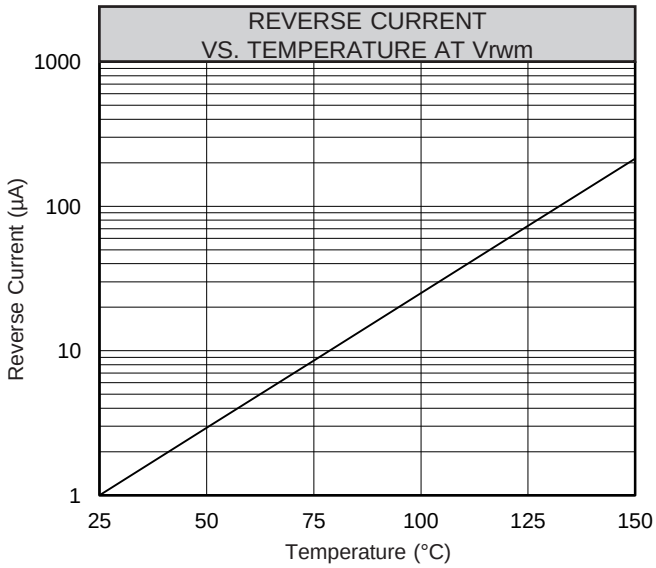
Part	A
Z25UFG	.290(7.37) MAX.
Z50UFG	.330(8.38) MAX.
Z100UFG	.400(10.16) MAX.
Z150UFG	.450(11.43) MAX.

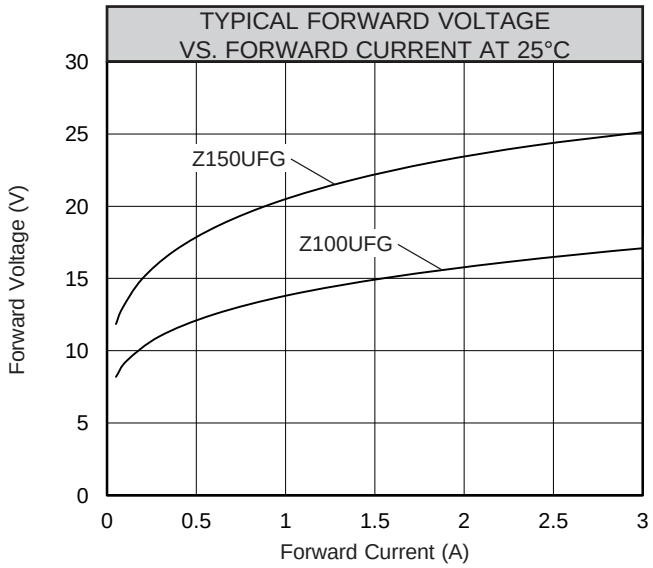
Dimensions: In. (mm) • All temperatures are ambient unless otherwise noted. • Data subject to change without notice.

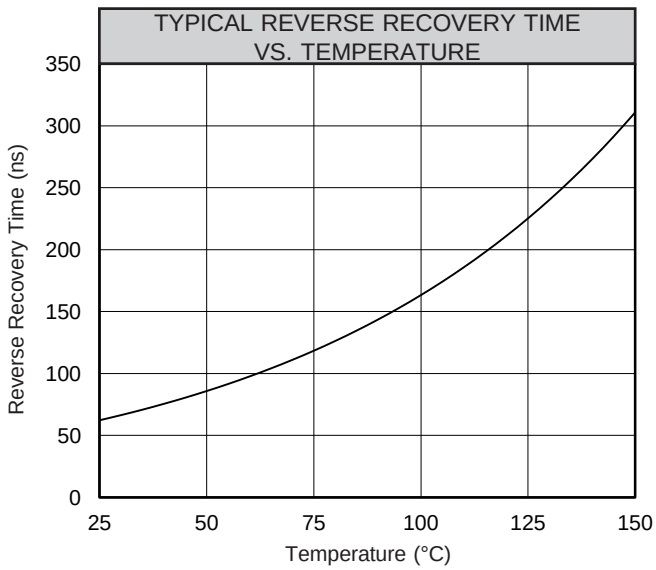
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www.highvoltagepowersupplies.com

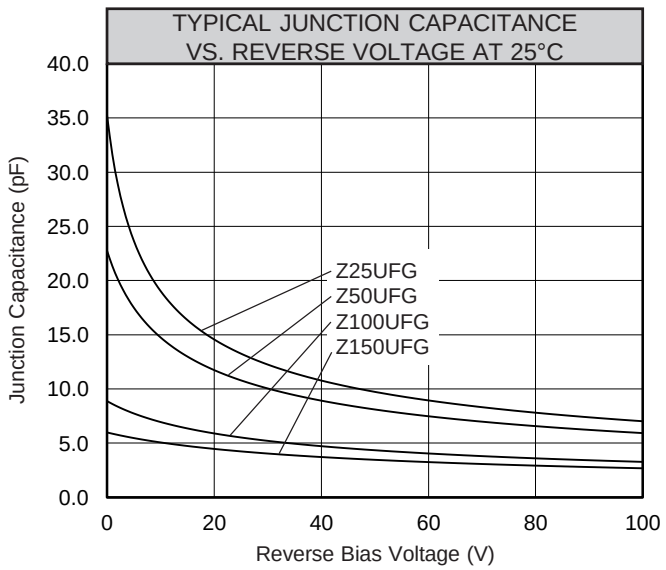

POWER DERATING
Maximum Power Dissipation (W)
25.0
20.0
15.0
10.0
5.0
0.0
L=0.200"
L=0.100"
L=0.000"
L=0.300"
L=0.400"
L=0.500"
0
25
50
75
100
125
150
175
Lead Temperature (°C)


TYPICAL FORWARD VOLTAGE
VS. FORWARD CURRENT AT 25°C
Forward Voltage (V)
12
10
8
6
4
2
0
Z50UFG
Z25UFG
0
1
2
3
4
5
Forward Current (A)


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


TYPICAL FORWARD VOLTAGE
VS. FORWARD CURRENT AT 25°C
Forward Voltage (V)
30
25
20
15
10
5
0
Z150UFG
Z100UFG
0
0.5
1
1.5
2
2.5
3
Forward Current (A)


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)


TYPICAL JUNCTION CAPACITANCE
VS. REVERSE VOLTAGE AT 25°C
Junction Capacitance (pF)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Z25UFG
Z50UFG
Z100UFG
Z150UFG
0
20
40
60
80
100
Reverse Bias Voltage (V)