



180 Lafayette Road
North Hampton, NH 03862-2448
PH: 603-964-3165
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WWW.PDEELECTRONICS.COM

Rectifier Assembly

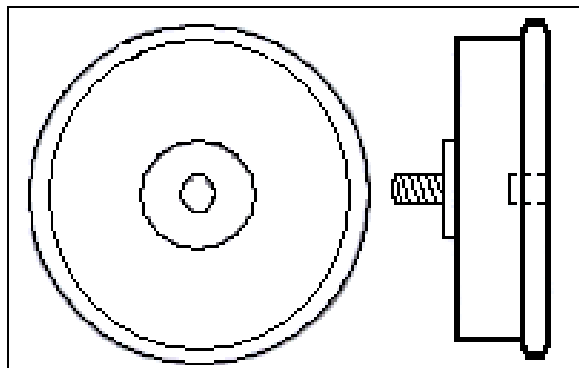
High Voltage Doorbell Assembly

Standard and Fast Recovery

UGB, UGD, UGE, UGF Series

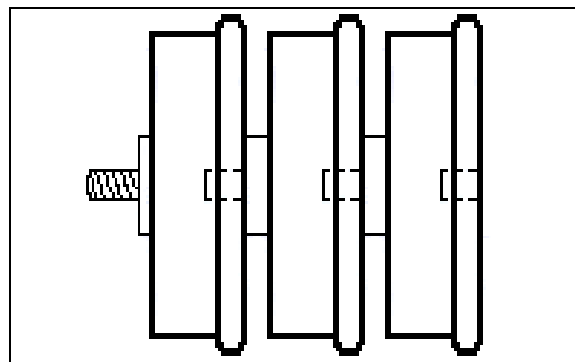
FEATURES

PIV: 2.5 kV to 10kV
Current Rating: to 10 A
Recovery Times: to 500nS
Only Glass Passivated Diodes Used
Controlled Avalanche Characteristics
Aluminum Heat Sink Base
Packaged for Easy Stacking



DESCRIPTION

This series of high-voltage, high current stacks incorporate a unique design that allows for high power applications such as charge, hold-off and clipper diodes. This design allows stacking of multiple units when higher voltages are necessary.



ABSOLUTE MAXIMUM RATING

Peak Inverse Voltage	
UGB, UGD.....	5kV to 10kV
UGE, UGF.....	2.5kV to 7.5kV
Average DC Output Current	See Electrical Specifications
One Cycle Surge Current (8.3mS, half sine, $T_c=100^{\circ}\text{C}$)	 See Electrical Specifications
Storage and Operating Temperature.....	-55°C to 150°C

Specifications subject to change without notice to ensure a better product

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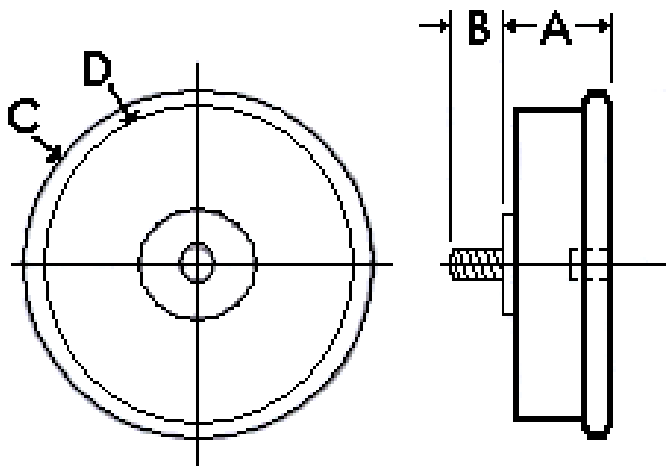
ELECTRICAL SPECIFICATIONS (at 25°C unless noted)					MAXIMUM RATINGS			
Type	PIV	Maximum Forward Drop Per Leg	Leakage Current @ PIV	Maximum Reverse Recovery Time ⁽¹⁾	Transient Energy Absorption *1	Maximum Average D.C. Output Current		Non-Repetitive Sinusoidal Surge (8.3mS) T _C =100°C
						T _C =75°C AIR	T _C =50°C OIL	
	kV		μA	nS	Joules	Amps	Amps	Amps
Standard Recovery	UGE2.5	2.5	5V @ 3.3A	10	8	6.60	10.00	200
	UGE5	5.0	10V @ 2.5A	15	14	5.00	7.50	200
	UGB5	5.0	9V @ 2.2A	5	7	4.40	6.60	100
	UGE7.5	7.5	13V @ 1.6A	10	20	3.30	5.00	200
	UGB7.5	7.5	13V @ 1.5A	5	10	3.00	5.00	100
	UGB10	10	17V @ 1.1A	5	14	2.30	3.50	100
Fast Recovery	UGF2.5	2.5	6V @ 2.5A	10	8	5.00	8.00	150
	UGF5	5.0	11V @ 1.8A	10	14	3.75	6.00	150
	UGD5	5.0	11V @ 1.6A	5	7	3.30	4.80	80
	UGF7.5	7.5	17V @ 1.2A	10	20	2.50	4.00	150
	UGD7.5	7.5	17V @ 1.1A	5	10	2.25	3.50	80
	UGD-10	10	22V @ .85A	5	14	1.75	2.50	80

1) Tested on discrete devices prior to assembly.

2) Conditions IF= 1A, IR=1A, IRR= 0.5A

3) Conditions IF=0.5A, IR=1A, IRR=0.25A

MECHANICAL SPECIFICATIONS



DIMENSIONS			
Dim	Inches		Note
	Min	Max	
A	-	1.020	
B	-	.316	
C	-	3.487	Dia
D	-	3.02	Dia
.375-24 Thread			

POLARITY

Cathode connected to base

MARKING:

Part number using epoxy ink

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