

# RECTIFIER TUBE

**NL-617**  
**RECTIFIER TUBE**  
**5 Amperes dc**



NATIONAL POWER TUBE NL-617 is a sturdy mercury vapor rectifier tube with Mogul screw base. It is designed especially for industrial rectifier applications at 250 and 600 volts dc and is mercury vapor filled for high efficiency, long life, and the ability to withstand high peak inverse voltages.

**NATIONAL ELECTRONICS, INC.**

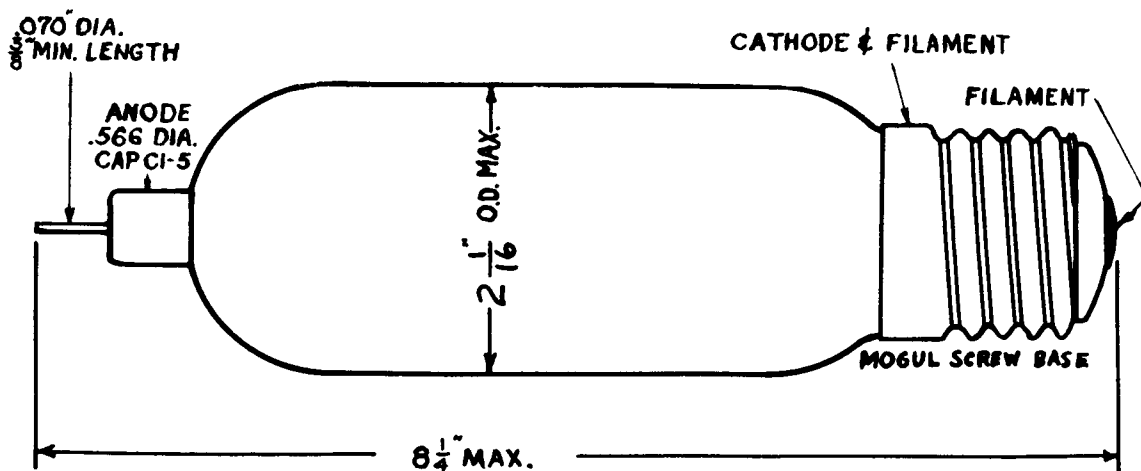
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# NL-617 RECTIFIER TUBE TECHNICAL INFORMATION

dc Amperes output (maximum)	5
Instantaneous Amperes output (maximum)	20
Maximum time of averaging anode current (seconds)	15
Maximum peak inverse volts	1000
Filament volts	2.0
Filament amperes	10 to 13
Filament heating time (seconds)	60
Typical arc drop at 15 amperes peak, 70 °C (volts)	10
Typical Anode starting voltage (volts)	12
Maximum ac short circuit current (amperes)	250
Condensed mercury temperature limits (°C)	+ 35 to + 90
Approx. temp. rise, cond. merc. above ambient, no load (°C)	25
Approx. temp. rise, cond. merc. above ambient, full load (°C)	40
Mounting position	vertical, base down
Net weight (ounces)	6
Approx. shipping weight (lbs.)	4

ALL DATA ARE BASED ON RETURNS TO FILAMENT CENTER TAP  
**LIGHT FILAMENT BEFORE APPLYING LOAD**

## OUTLINE DRAWING



Printed in USA 5-56 GR

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