

# RECTIFIER TUBE

**NL-649**

**RECTIFIER TUBE**

**2 Amperes dc**



NATIONAL POWER TUBE NL-649 is a sturdy, single-ended, rectifier tube designed especially for industrial power rectifier applications and for "back-rectifier" applications in conjunction with a thyatron tube. It is mercury filled for efficiency, long life, and the ability to stand high inverse voltage.

**NATIONAL ELECTRONICS, INC.**

**GENEVA, ILLINOIS, U. S. A.**

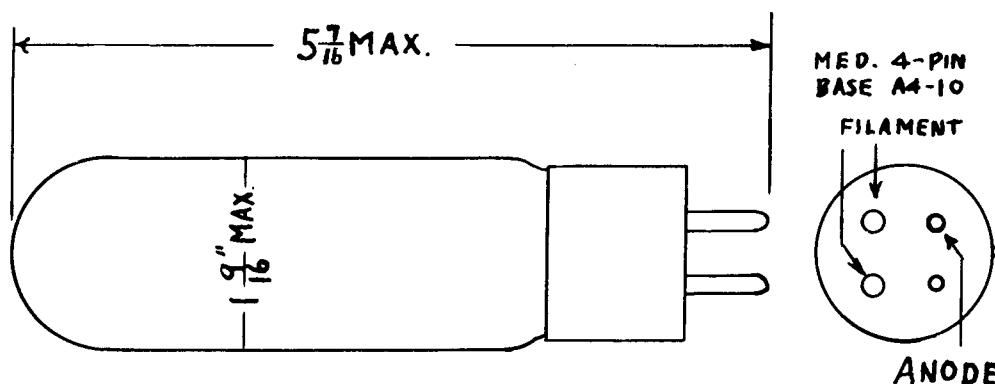
# NL-649 RECTIFIER TUBE TECHNICAL INFORMATION

dc Amperes output (maximum) .....	2
Instantaneous Amperes output (maximum) .....	10
Maximum time of averaging anode current (seconds) .....	5
Maximum peak inverse volts .....	900
Filament volts .....	2.5
Filament amperes .....	7 ± 1
Filament heating time (seconds) .....	20
Typical arc drop at 6 amperes peak (volts) .....	9
Typical Anode starting voltage (volts) .....	16
Maximum ac short circuit current (amperes) .....	125
Condensed mercury temperature limits (°C) .....	+ 35 to + 85
Approximate temperature rise, cond. mercury above ambient (°C) .....	25
Mounting position .....	vertical, base down
Net weight (ounces) .....	3
Approx. shipping weight (lbs.) .....	3

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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