



MERCURY-VAPOR RECTIFIER

DESCRIPTION

This half-wave, mercury-vapor rectifier is designed to withstand high peak inverse voltages and to conduct at low applied voltages. The construction minimizes the danger of bulb cracks caused by corona discharge. An edgewise-wound ribbon filament

provides a large emission reserve and improved life.

Two 866-A's operating in a full-wave rectifier are capable of delivering to the input of a choke-input filter a rectified voltage of 3180 volts at 0.5 ampere with good regulation.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes.....	2		
Electrical			
Cathode—Filamentary	Minimum	Bogey	Maximum
Filament voltage.....	2.37	2.5	2.62 volts
Filament current, approximate.....		5.0	5.4 amperes
Heating time, typical.....	15		seconds
Peak voltage drop, typical.....		15	volts
Mechanical			
Type of cooling.....	convection		
Equilibrium condensed-mercury temperature rise over ambient			
No load, approximate.....		26C	
Full load, approximate.....		33C	
Net weight, approximate.....		3 ounces	
Shipping weight, approximate.....		3 pounds	
Mounting position.....	vertical, base down		

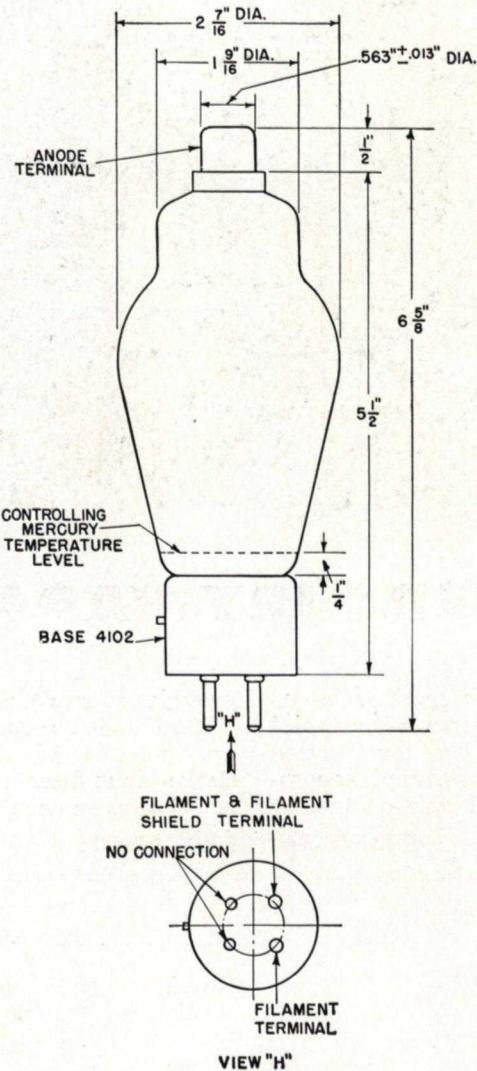

Electronic
TUBE

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TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Maximum peak inverse anode voltage				
150 cycles per second or less.....	2000	10,000	volts	
Condensed mercury temperature.....	25-70	25-60	centigrade	
1000 cycles per second or less.....		5000	volts	
Condensed mercury temperature.....		25-70	centigrade	
Maximum cathode current				
Instantaneous.....	2.0	1.0	amperes	
Average.....	0.5	0.25	amperes	
Surge (maximum duration 0.1 second).....	20	20	amperes	
Maximum averaging time.....	30	30	seconds	



GL-866-A OUTLINE

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Electronics Department

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Schenectady, N. Y.