



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		



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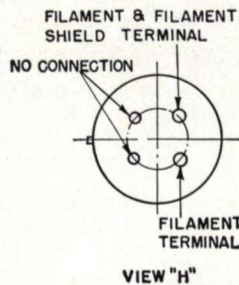
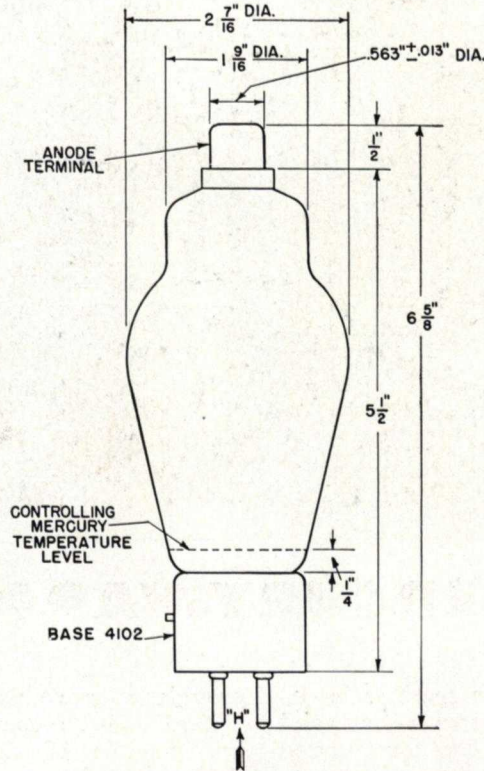
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Supersedes ETX-175 dated 5-46

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

K-6966978

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