



PHANOTRON

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/866'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

Filament voltage	2.5	2.5 volts
Filament current, approx.	5	5 amperes
Heating time, typical		30 seconds
Peak voltage drop, typical	15	15 volts

Mechanical

Type of cooling	convection
Net weight, approx.	3 ounces
Shipping weight, approx.	3 pounds
Mounting position	vertical, base down

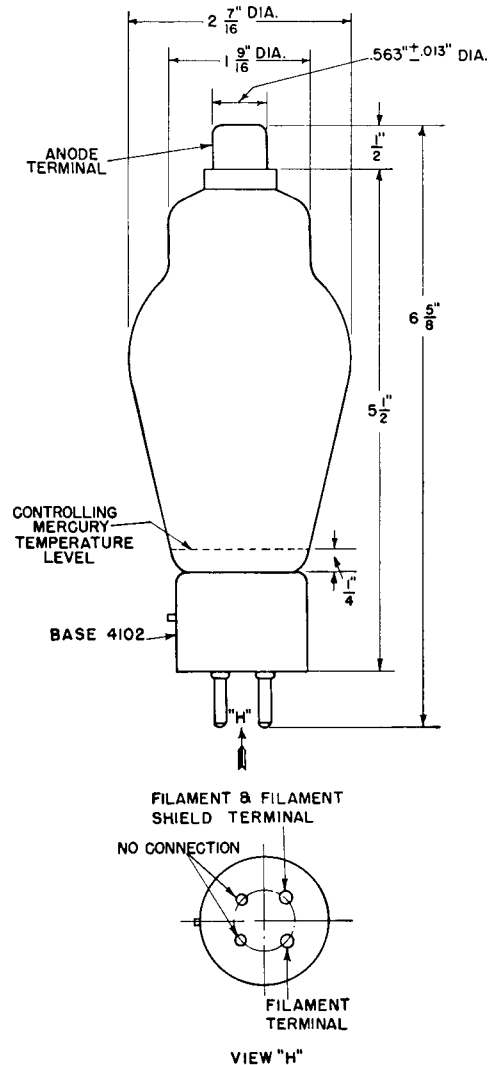

Electronic
TUBE

GENERAL  ELECTRIC

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		5,000 volts
Condensed mercury temperature		25-70 centigrade
Maximum anode current		
Instantaneous	2.0	1.0 amperes
Average	0.5	0.25 amperes
Recommended temperature, condensed mercury	40 ± 5	centigrade



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9-23-44

OUTLINE
GL-866-A/866 PHANOTRON

Electronics Department
GENERAL ELECTRIC
Schenectady, N. Y.