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

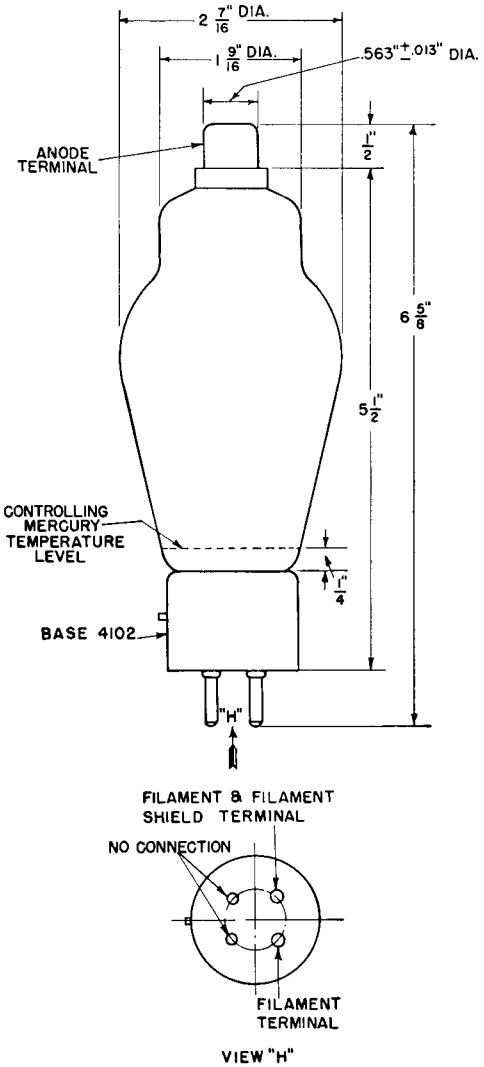
GE Electronic TUBE

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



K-6966978 9-23-44

OUTLINE
GL-866-A/866 PHANOTRON

Electronics Department
GENERAL ELECTRIC
Schenectady, N. Y.