



PHANOTRON

DESCRIPTION

The FG-32 is a half-wave, mercury-vapor rectifier for converting alternating current to direct current. It is adapted to applications where rectification of higher currents at lower frequencies and voltages is desired than is possible with high-

vacuum tubes. In comparison with high-vacuum tubes the FG-32 has a relatively low and constant voltage drop which is an advantage in low-voltage rectifier applications as it allows more efficient utilization of power and results in lower circuit losses.

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Number of electrodes 2

Electrical

Cathode—Indirectly heated type

Heater voltage 5.0 volts

Heater current, approx. 4.5 amperes

Heating time, typical 5 minutes

Peak voltage drop, typical 12 volts

Mechanical

Net weight, approx. 4 ounces

Shipping weight, approx. 3 pounds

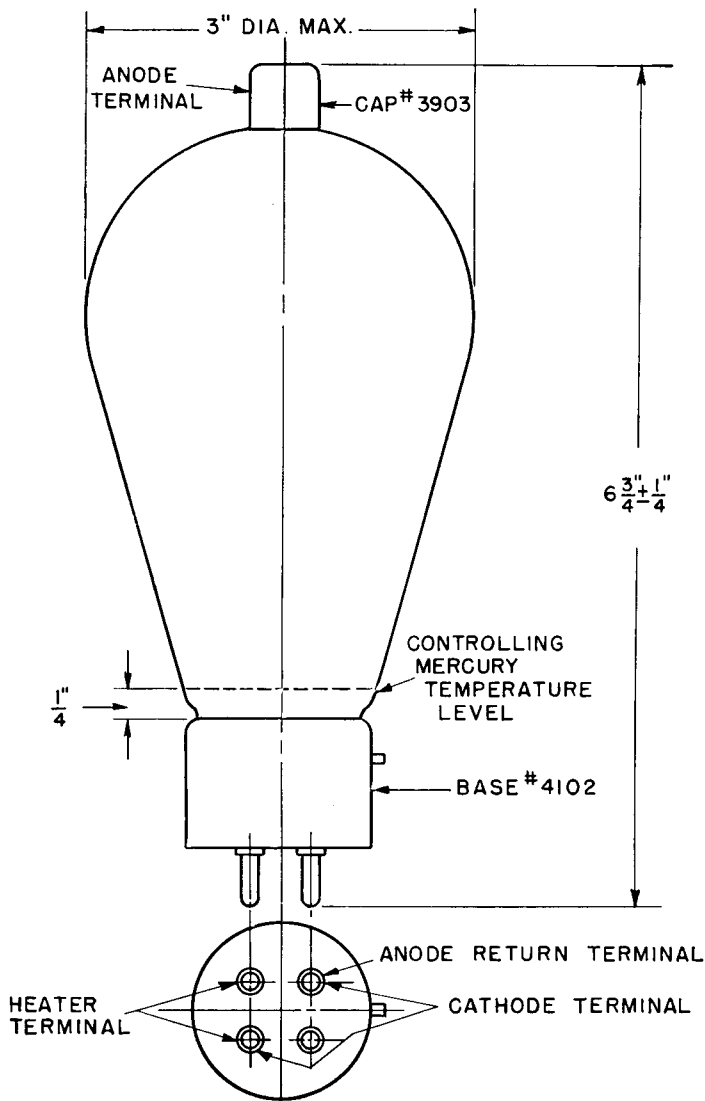
Mounting position vertical, base down



TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Maximum peak inverse anode voltage.....	1000	volts
Maximum anode current		
Instantaneous, 25 cycles and above.....	15	amperes
Instantaneous, below 25 cycles.....	5	amperes
Average.....	2.5	amperes
Surge, for design only.....	200	amperes
Duration of surge current.....	0.1	second
Maximum time of averaging current.....	15	seconds
Temperature limits, condensed mercury.....	+30 to +80	centigrade
Recommended temperature, condensed mercury.....	40	centigrade



OUTLINE
 FG-32 PHANOTRON

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