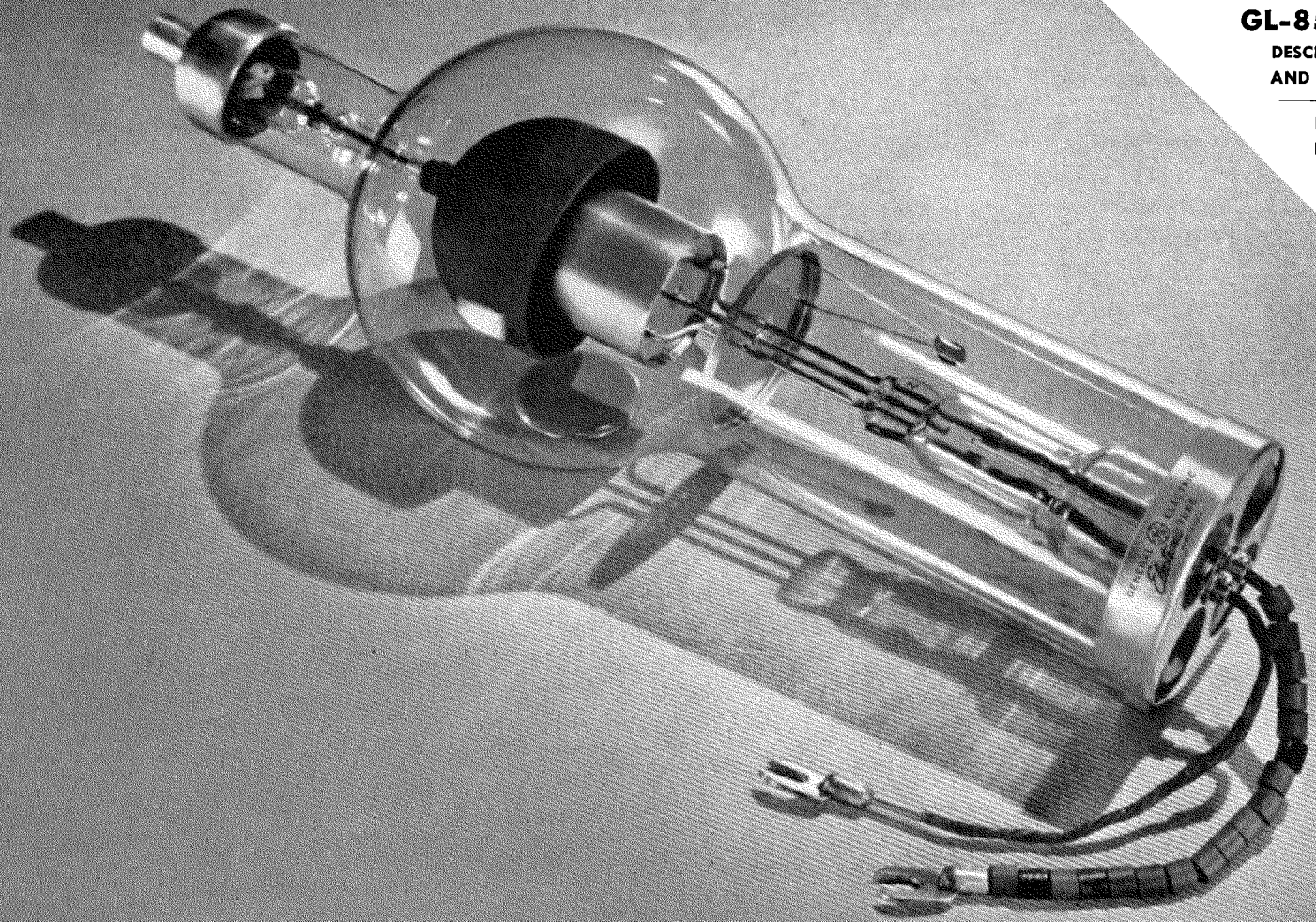




PHANOTRON

DESCRIPTION

The GL-857-B is a half-wave, mercury-vapor rectifier tube for use in the high voltage field. The low voltage drop characteristic inherent in mercury-

vapor tubes, together with other features of design and construction assure maximum efficiency of operation in many different rectifier applications.

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.....5.0 volts

Filament current, approx.....30.0 amperes

Heating time, typical.....1 minute

Peak voltage drop, typical.....12 volts

Mechanical

Type of cooling.....convection or forced air

Net weight, approx.....3½ pounds

Shipping weight, approx.....10 pounds

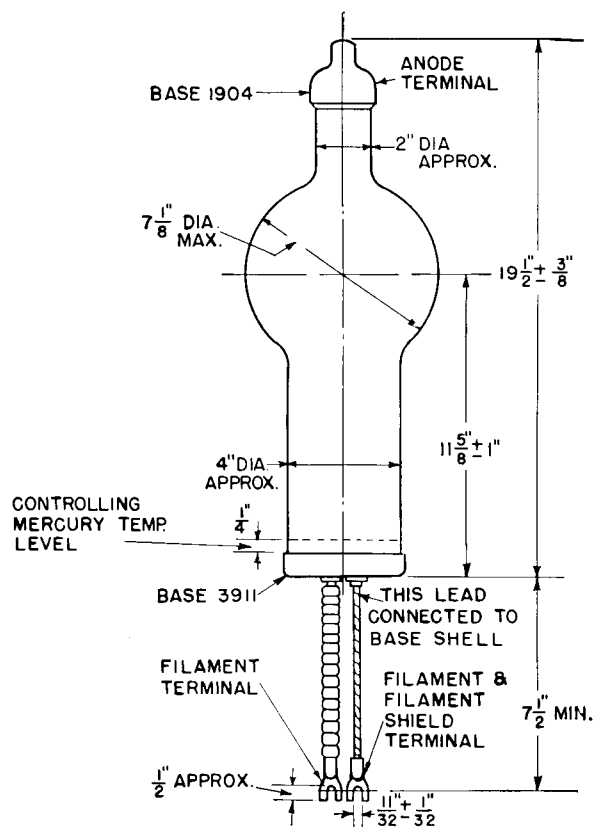
Mounting position.....vertical, base down



TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Maximum peak inverse anode voltage		
Type of cooling	Convection	Forced-air
150 cycles or less	10,000 volts	22,000 volts
Corresponding mercury temperature	25-65 centigrade	30-40 centigrade
Maximum anode current		
Instantaneous 25 cycles and above		
In-phase operation		20 amperes
Quadrature operation		40 amperes
Average		
In-phase operation		5 amperes
Quadrature operation		10 amperes
Surge, for design only		400 amperes
Duration of surge current		0.2 second
Maximum time of averaging current		30 seconds
Recommended temperature, condensed mercury		35 $\pm$ 5 centigrade



OUTLINE
GL-857-B PHANTOTRON

K-4903593

9-23-44