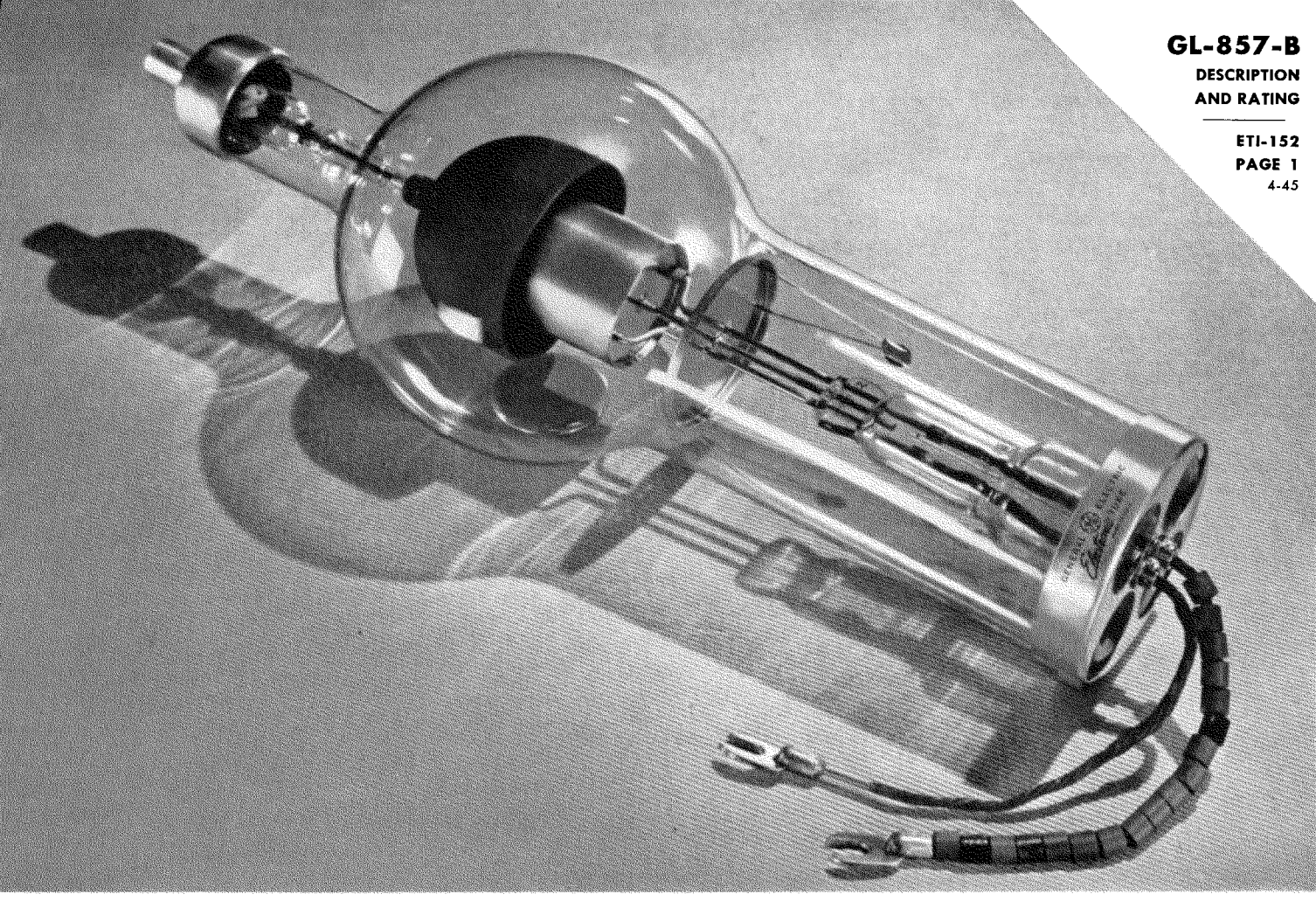

PHANOTRON

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

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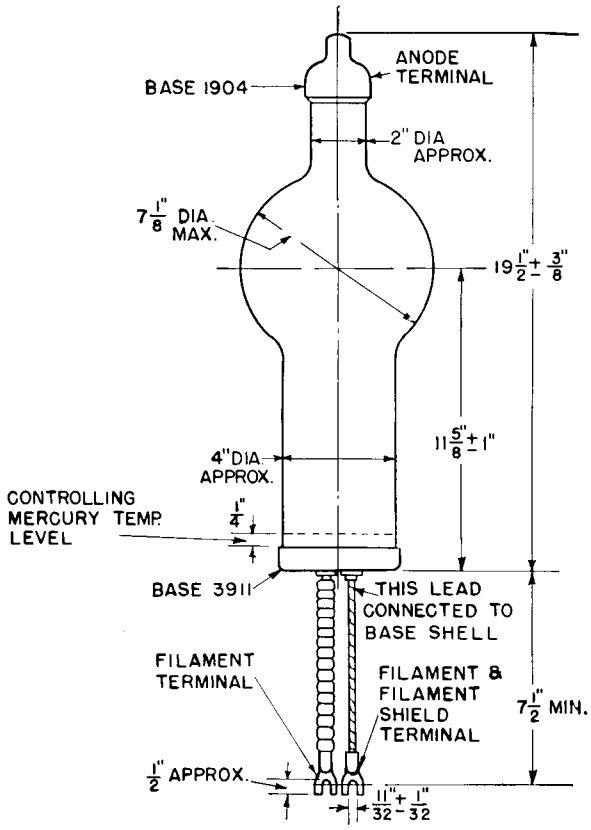
TECHNICAL INFORMATION (CONT'D)

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 operaton		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 ± 5	centigrade



OUTLINE
GL-857-B PHANOTRON

K-4903593 9-23-44

Electronics Department
GENERAL ELECTRIC
Schenectady, N. Y.