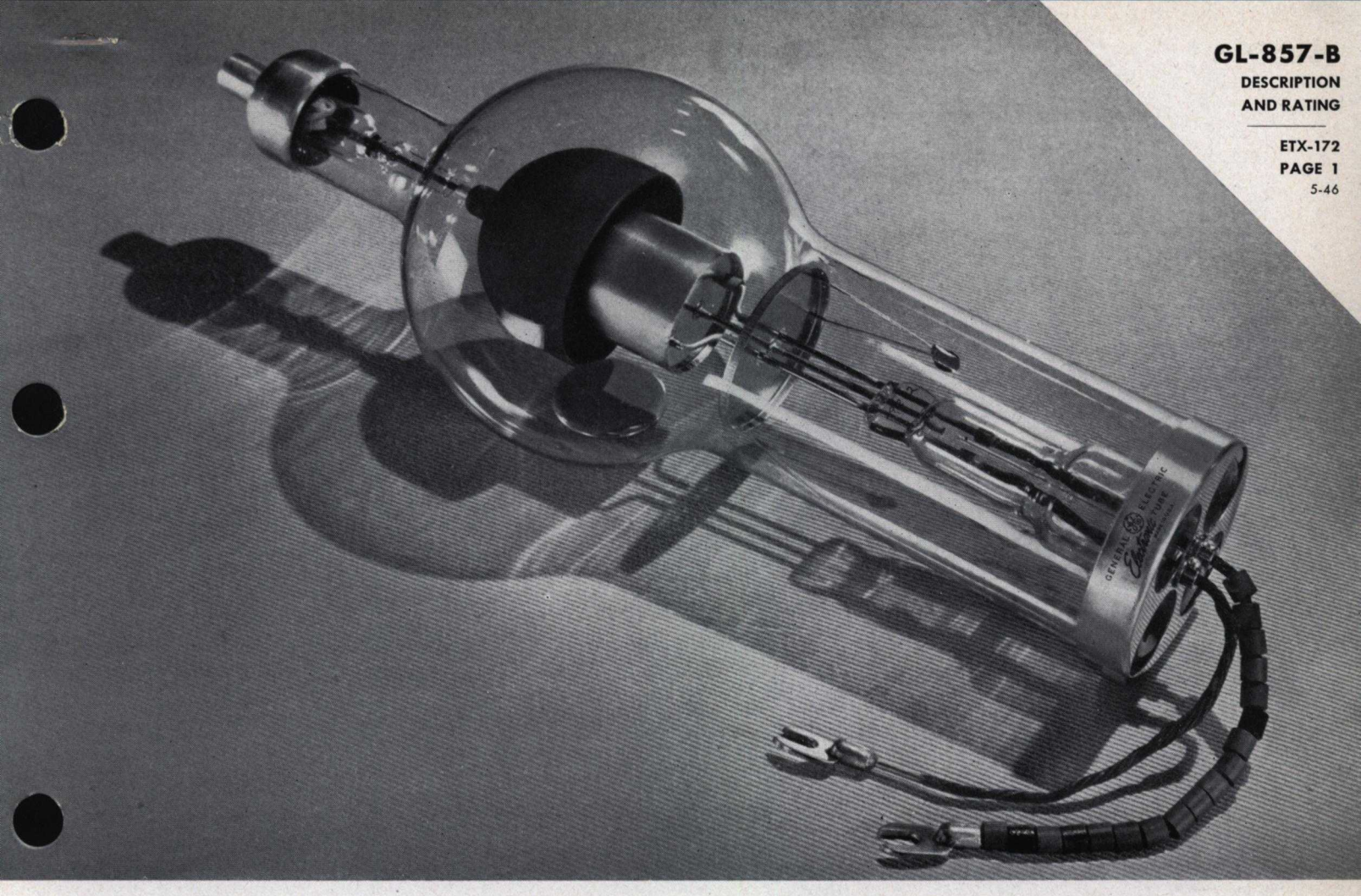


MERCURY-VAPOR RECTIFIER

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 efficeincy 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, approximate	30.0	amperes
Heating time, typical	1	minute
Peak voltage drop, typical	15	volts

Mechanical

Type of cooling	convection or forced-air	
Net weight, approximate	3½	pounds
Shipping weight, approximate	10	pounds
Mounting position	vertical, base down	

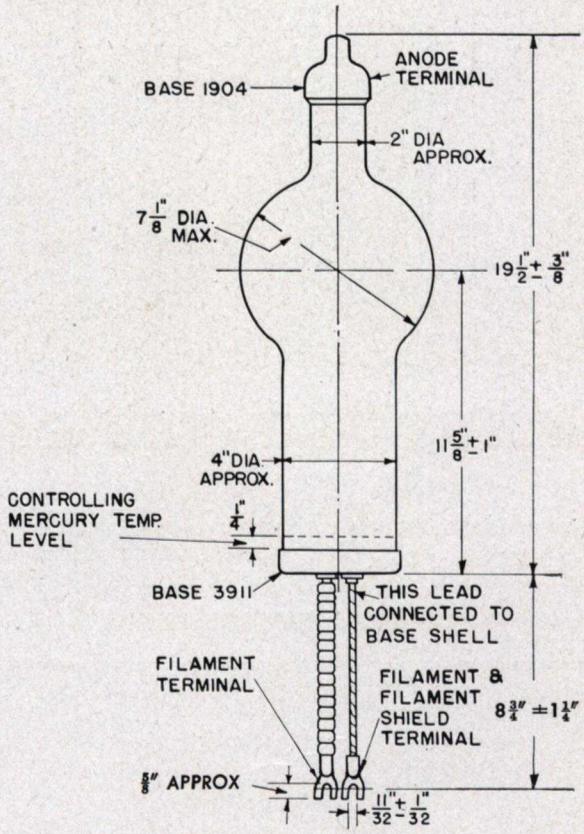
GE Electronic TUBE

GENERAL ELECTRIC

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

Maximum peak inverse anode voltage, 150 cycles or less	10,000 volts	22,000	volts
Type of cooling	Convection	Forced-air	
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 ±5	centigrade



GL-857-B OUTLINE

K-4903593 8-22-45

Electronics Department

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Schenectady, N. Y.