

**RECTIFIER
HALF-WAVE, MERCURY-VAPOR**

Western Electric

DESCRIPTION

The 315A is a half-wave, mercury-vapor rectifier tube for use in high-voltage rectifier circuits.

MAXIMUM RATINGS

Peak Inverse Anode Voltage	12500 volts
Average Cathode Current (Quadrature Operation)	2 amperes

MAXIMUM RATINGS, ABSOLUTE VALUES

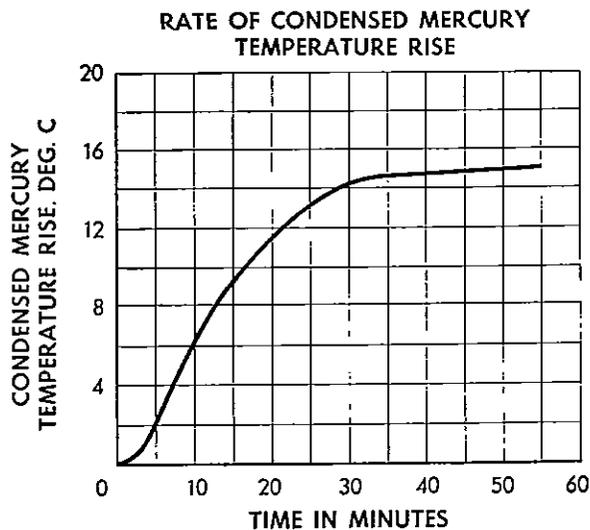
Peak Inverse Anode Voltage for	
Condensed Mercury Temperature 20 to 55 C	12500 volts
Condensed Mercury Temperature 20 to 65 C	7500 volts
Cathode Current	
Peak	
In-phase Operation	4 amperes
Quadrature Operation.	8 amperes
Average	
In-phase Operation	1 ampere
Quadrature Operation.	2 amperes
Surge (maximum duration 0.1 second)	40 amperes
Averaging Time	15 seconds
Frequency	150 cycles/sec.

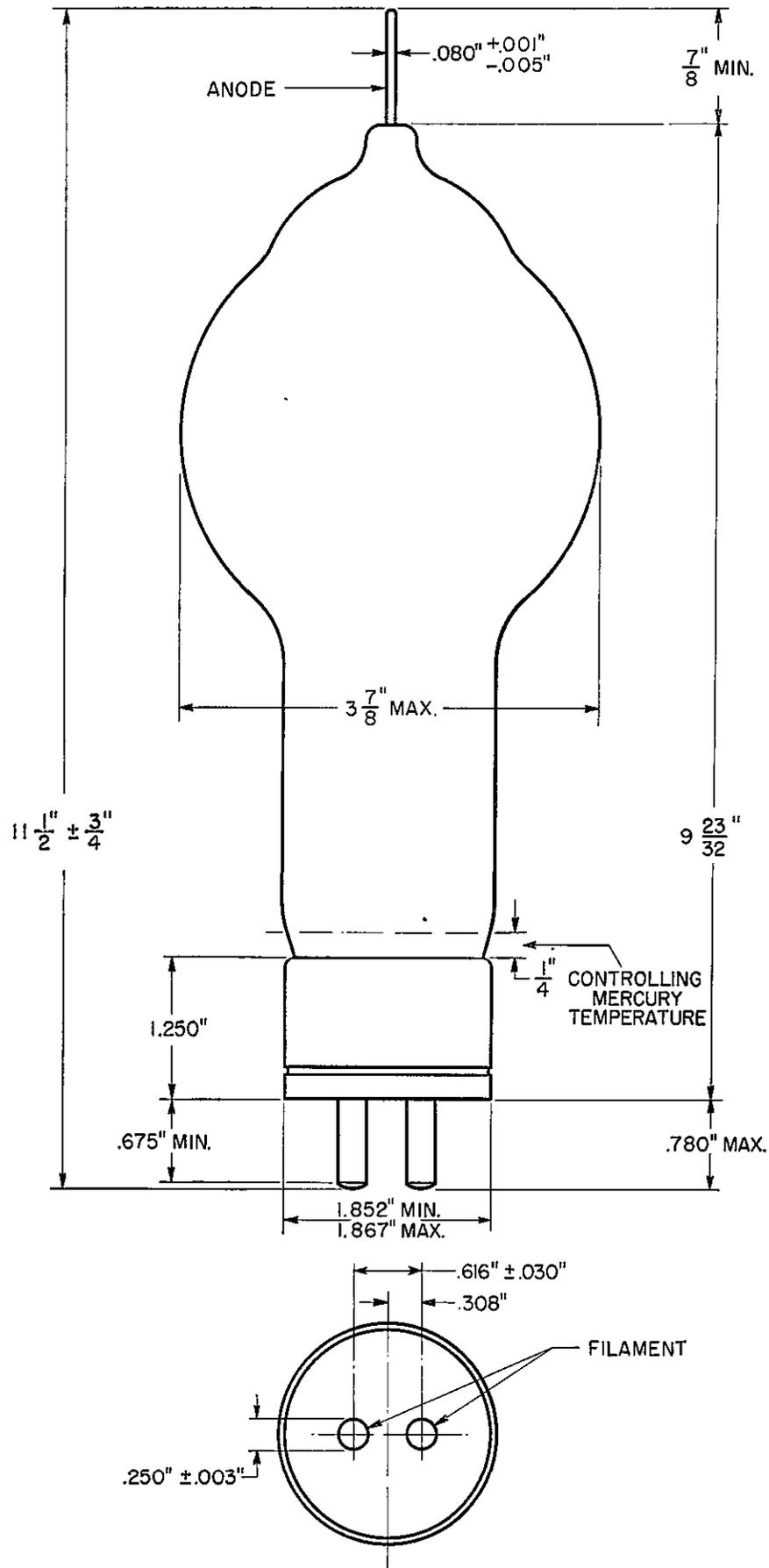
ELECTRICAL DATA

	Min.	Bogey	Max.
Filament Voltage	4.75	5.0	5.25 volts
Filament Current at 5 Volts		10	11.5 amperes
Cathode Heating Time, Required	30		seconds
Anode Voltage Drop		15	volts
Critical Anode Voltage			100 volts

MECHANICAL DATA

Net Weight, Approximate	10 ounces
Equilibrium Condensed Mercury Temperature Rise	
At Full Load, Approximate	18 centigrade
At No Load, Approximate	15 centigrade
Cooling	Convection
Mounting	This tube should be mounted in a vertical position only, with the base end down. Sufficient clearance should be maintained around the tube to insure free air circulation.





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A development of Bell Telephone Laboratories, the
research laboratories of the American Telephone and
Telegraph Company and the Western Electric Company