



RADIO MANUFACTURERS ASSOCIATION

ENGINEERING DEPARTMENT

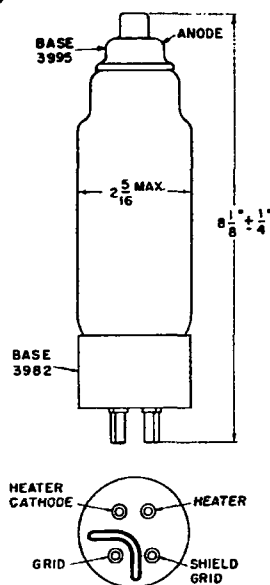
Release No. 516

September 5, 1946

RMA TYPE 672

GRID CONTROLLED MERCURY VAPOR RECTIFIER

sponsor:
Westinghouse Electric Corp.



GENERAL CHARACTERISTICS

Air Cooled Tetrode
Heater Voltage..... 5 Volts
Heater Current..... 6 Amperes
Cathode Heating Time..... 5 Minutes
Grid Current, Max., just before
Conduction, Grid Negative..... 2 Microamperes
Ionization Time..... 10 Microseconds
Deionization Time..... 1000 Microseconds
Tube Voltage Drop..... 12 Volts
Capacitance, Anode-Grid..... 0.04 uuf
Capacitance, Anode-Shield Grid..... 3 uuf
Control Characteristic..... Negative
Mounting Position..... Pin Base Down
Temperature, Optimum, Condensed
Mercury..... *45° to 50° C

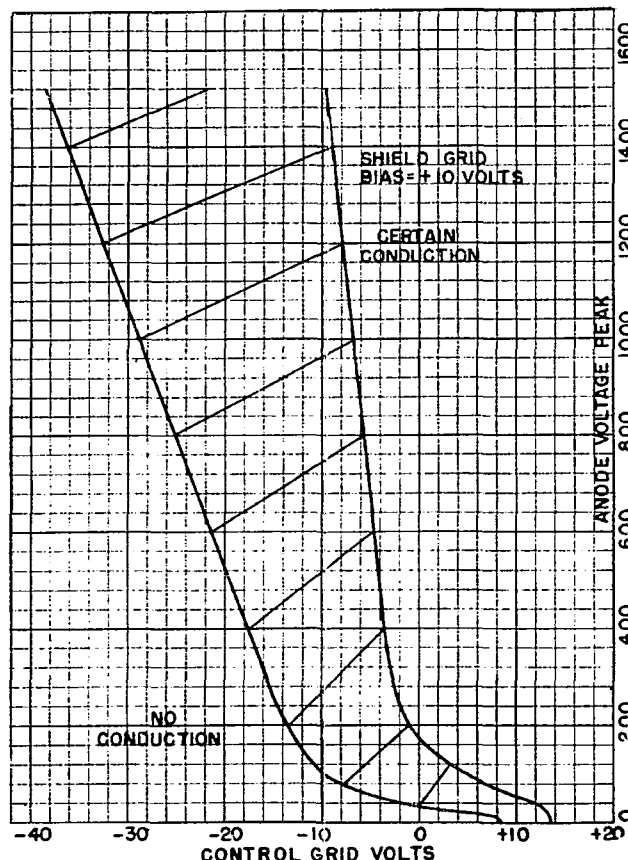
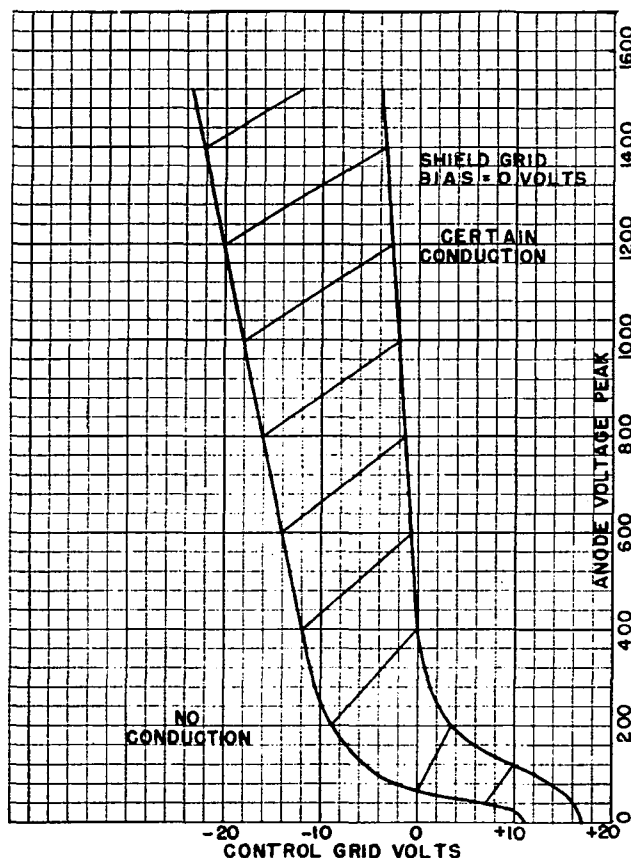
MAXIMUM RATINGS

Up to 150 Cycles

Anode Voltage, Peak Forward..... 1500 Volts
Anode Voltage, Peak Inverse..... 1500 Volts
Anode Current, Average..... 2.5 Amperes
Anode Current, Peak..... 30 Amperes
Anode Current, Surge, for design only..... 150 Amperes
Grid Voltage, Peak Negative, before Conduction..... 1000 Volts
Grid Current, Average Positive, Anode Pos..... 0.25 Ampere

Grid Current, Peak Positive, Anode Positive..... 1.0 Ampere
Shield Grid Voltage, Peak Neg., before Conduction..... 300 Volts
Shield Grid Current, Positive, Ave. Anode Pos..... 0.25 Ampere
Shield Grid Current, Peak Positive, Anode Pos..... 1.0 Ampere
Averaging Time, Anode and Grid Currents..... 15 Seconds
Temperature Range, Condensed Mercury..... *40° to 80° C

*Measured at top edge of base.



Space between limiting curves indicates variations which may be expected in individual tubes initially and throughout life when operated within the specified temperature limits.