



RADIO MANUFACTURERS ASSOCIATION ENGINEERING DEPARTMENT

Release No. 516

September 5, 1946

RMA TYPE 676

GRID CONTROLLED MERCURY VAPOR RECTIFIER

sponsor:

Westinghouse Electric Corp.

GENERAL CHARACTERISTICS

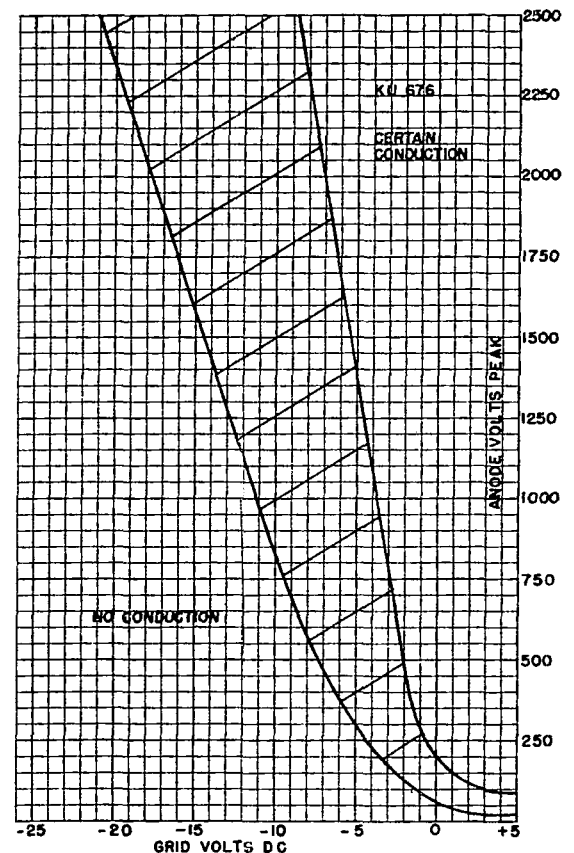
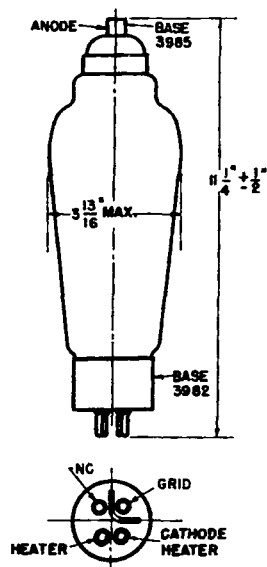
Air-Cooled Triode
Heater Voltage.....5 Volts
Heater Current.....10.0 Amperes
Cathode Heating Time.....5 Minutes
Grid Current, Max., just before
Conduction, Grid Negative.....5 Microamperes
Ionization Time, Max.....10 Microseconds
Deionization Time, Max.....1000 Microseconds
Tube Voltage Drop.....12 Volts
Capacitance, Anode—Grid.....5 uuf
Control Characteristic.....Negative
Mounting Position.....Pin Base Down
Temperature, Range, Optimum,
Condensed Mercury.....*45° to 55° C

MAXIMUM RATINGS

Up to 150 Cycles

Anode Voltage, Peak Forward.....	2500 Volts	Welder Control Service.....750 Volts
Anode Voltage, Peak Inverse.....	2500 Volts	Welder Control Service.....750 Volts
Anode Current, Average.....	6.4 Amps.	Welder Control Service.....2.5 Amps.
Anode Current, Peak.....	40 Amps.	Welder Control Service.....77 Amps.
Anode Current, Surge, for design only.....	200 Amps.	Welder Control Service.....200 Amps.
Grid Voltage, Peak Negative, before Conduction...	500 Volts	Welder Control Service.....500 Volts
Grid Current, Average Positive, Anode Positive...	0.25 Amp.	Welder Control Service.....0.25 Amp.
Grid Current, Peak Positive, Anode Positive.....	1 Amp.	Welder Control Service.....1 Amp.
Averaging Time, Anode and Grid Currents.....	15 Sec.	Welder Control Service.....5 Sec.
Temperature Range, Condensed Mercury.....	*40 to 80°C	Welder Control Service.....*40° to 90° C

*Measured at top edge of base.



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