**RADIO MANUFACTURERS ASSOCIATION**
**ENGINEERING DEPARTMENT**

Release No. 416

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# RMA TYPE **627**

## GRID CONTROLLED MERCURY VAPOR RECTIFIER

sponsor:
Westinghouse Electric Corp.

### GENERAL CHARACTERISTICS

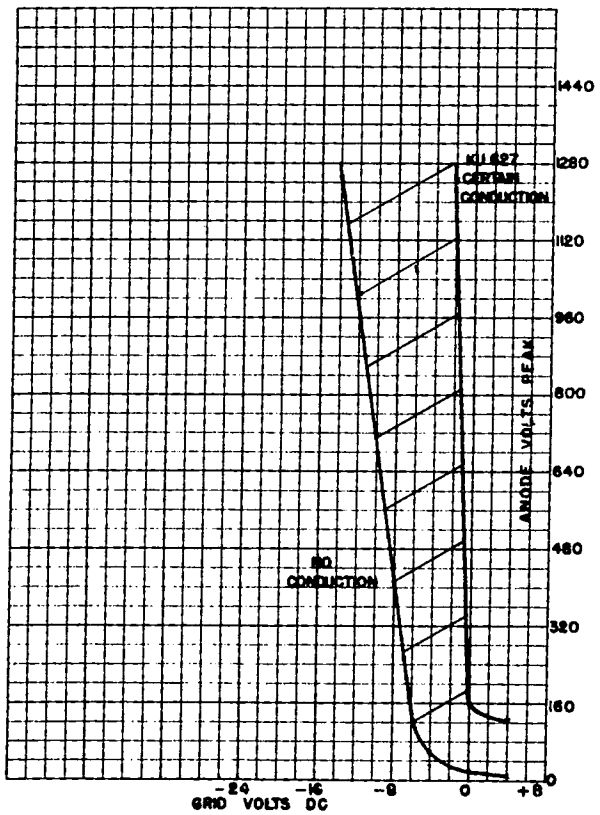
Air Cooled Triode
Filament Voltage.....2.5 Volts
Filament Current.....6 Amperes
Filament Heating Time.....10 Seconds
Grid Current, Max., just before Conduction, Grid Negative.....4 Microamperes
Ionization Time, Max.....10 Microseconds
Deionization Time, Max.....1000 Microseconds
Tube Voltage Drop, Average.....12 Volts
Capacitance, Anode-Grid.....2.5 uuf
Control Characteristic.....Negative
Mounting Position.....Pin Base Down
Temperature, Optimum, Condensed Mercury.....*40° to 45° C

*Measured at top edge of base.

### MAXIMUM RATINGS

Up to 150 Cycles

Anode Voltage, Peak Forward.....1250 Volts
Anode Voltage, Peak Inverse.....2500 Volts
Anode Current, Average.....0.64 Ampere
Anode Current, Peak.....2.5 Amperes
Anode Current, Surge, for design only.....25 Amperes
Grid Voltage, Peak Negative, before Conduction.....500 Volts
Grid Current, Average Positive, Anode Positive...0.06 Ampere
Grid Current, Peak Positive, Anode Positive.....0.25 Ampere
Averaging Time, Anode and Grid Currents.....30 Seconds
Temperature Range, Condensed Mercury.....*25° to 70° C




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