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THYRATRON

MERCURY-VAPOR TETRODE

105

Electrical:	DATA				
	Continuous Service		Intermittent Service		
Heater, for Unipotential Cathode:					
Voltage*	5.0	5.0	5.5	5.0	volts
Current	10.0	10.0	11.0	10.0	amp
Direct Interelectrode Capacitance:					
Grid-No.1 to Anode (Approx.)	0.3	0.3	0.3	0.3	μf
Peak Voltage Drop (Approx.)	16	16	16	16	volts
Approx. Control Characteristics:					
Anode Voltage	100	1000	100	1000	volts
Grid-No.2 Voltage	0	0	0	0	volts
Grid-No.1 Voltage	+1	-9	+1	-9	volts
Ionization Time (Approx.)	10	10	10	10	μsec.
Delonization Time (Approx.)	1000	1000	1000	1000	μsec.

Mechanical:

Mounting Position	Vertical, Base Down
Overall Length	11" ± 1/4"
Seated Length	10-1/4" ± 1/4"
Greatest Radius	2-13/16"
Bulb	ST-30
Caps	No. 3917
Base	Super-Jumbo 4-Pin, with Bayonet

Maximum Ratings, Absolute Values:

	Continuous Service	Intermittent Service		
PEAK FORWARD ANODE VOLT.	2500	750	10000	max.volts
PEAK INVERSE ANODE VOLT.	2500	750	10000	max.volts
GRID-No.1 (CONT.GRID) VOLT.:				
Before Conduction	-1000	-1000	-1000	max.volts
During Conduction	-10	-10	-10	max.volts
GRID-No.2 (SH'LD GRID) VOLT.:				
Before Conduction	-500	-500	-500	max.volts
During Conduction	-10	-10	-10	max.volts
INSTANTANEOUS ANODE CUR.:				
Below 25 Cycles	12.8	5.0	8.0	max.amp
25 Cycles and Higher	40	77	16	max.amp
AVERAGE ANODE CURRENT				
SURGE ANODE CUR., for	6.4	2.5	4.0	max.amp
0.1 sec., max.	400	400	160	max.amp
INSTANTANEOUS GRID-No.1 CUR.	1.0	1.0	1.0	max.amp
AVERAGE GRID-No.1 CUR.	0.25	0.25	0.25	max.amp
INSTANTANEOUS GRID-No.2 CUR.	2.0	2.0	2.0	max.amp
AVERAGE GRID-No.2 CUR.	0.5	0.5	0.5	max.amp
TIME OF AVERAGING CURRENT	15	5	15	max.sec
COND.-MERCURY TEMP. RANGE [▲]	40-80	30-95	25-50	°C

* Must be applied 5 minutes before anode voltage is applied.

▲ Recommended condensed-mercury temperature = 40°C.

MAY 1, 1946

TUBE DIVISION

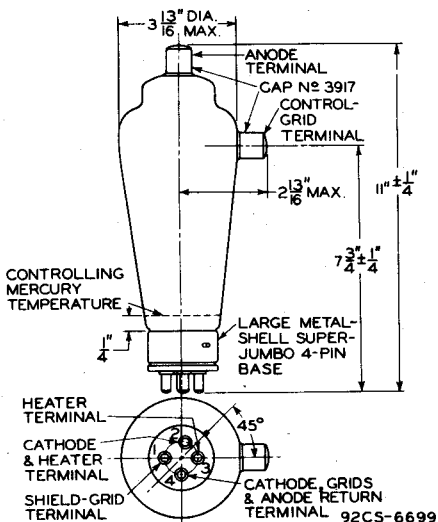
TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



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OPERATIONAL REGION OF CRITICAL GRID VOLTAGE

