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THYRATRON

MERCURY-VAPOR TRIODE

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Electrical:		DATA
Heater, for Unipotential Cathode:		
Voltage*	5	volts
Current	10	amp
Direct Interelectrode Capacitance:		
Grid to Anode (Approx.)	5	μ uf
Peak Voltage Drop	12	volts
Control Characteristic	Negative	
Ionization Time (Approx.)	10	μ seconds
Deionization Time (Approx.)	1000	μ seconds

Mechanical:

Mounting Position	Vertical, Base Down
Overall Length	11-1/4" $\pm$ 1/2"
Maximum Diameter	3-13/16"
Bulb	ST-30
Cap	No. 3985
Base	Large Shell Super-Jumbo 4-Pin

Maximum Ratings, Absolute Values:

For frequencies up to 150 cycles

	Continuous Service	Welder- Control Service	
PEAK FORWARD ANODE VOLTAGE	2500 max.	750 max.	volts
PEAK INVERSE ANODE VOLTAGE	2500 max.	750 max.	volts
PEAK GRID VOLTAGE:			
Before Conduction	-500 max.	-500 max.	volts
PEAK ANODE CURRENT	40 max.	77 max.	amp
AVERAGE ANODE CURRENT	6.4 max.	2.5 max.	amp
SURGE ANODE CURRENT for			
0.1 sec. max.	200 max.	200 max.	amp
GRID CURRENT: Before con-			
duction (Grid Negative)	5 max.	5 max.	μ amp
PEAK GRID CURRENT	1 max.	1 max.	amp
AVERAGE GRID CURRENT	0.25 max.	0.25 max.	amp
TIME OF AVERAGING CURRENTS	15 max.	5 max.	sec
COND.-MERCURY TEMP. RANGE ^A	40 - 80	40 - 90	$^{\circ}$ C

* Heater voltage must be applied for at least 5 minutes before anode voltage is applied.

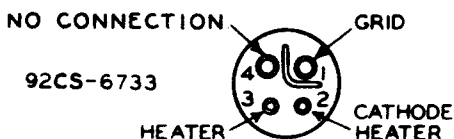
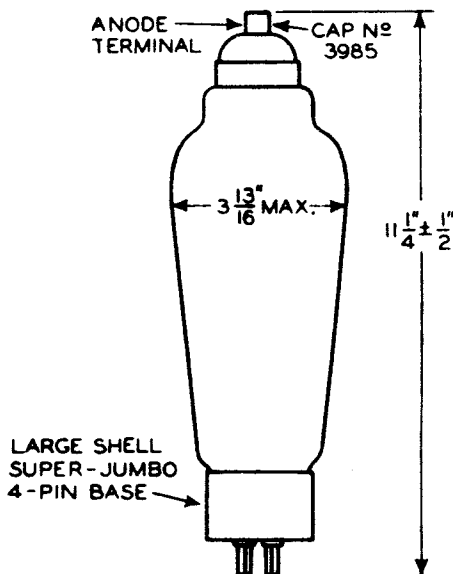
^A Recommended condensed-mercury temperature range, 45 - 55 $^{\circ}$ C.

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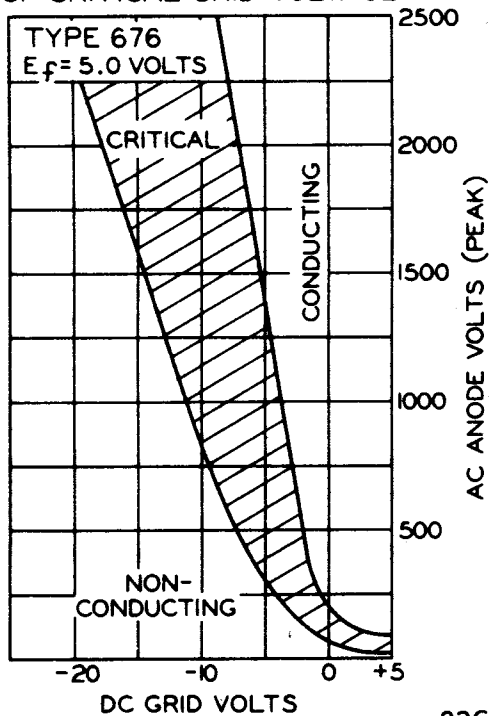


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OPERATIONAL REGION OF CRITICAL GRID VOLTAGE



92CS-6732

MAY 1, 1946

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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