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THYRATRON

MERCURY-VAPOR TRIODE

Electrical:**DATA****Heater, for Unipotential Cathode:**

Voltage* 5 volts
 Current 10 amp

Direct Interelectrode Capacitance:

Grid to Anode (Approx.) 5 μ f
 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.

MAY 1, 1946

TUBE DIVISION

TENTATIVE DATA

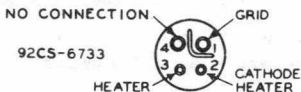
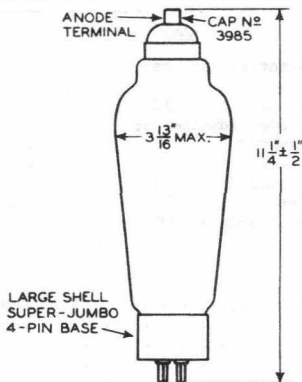
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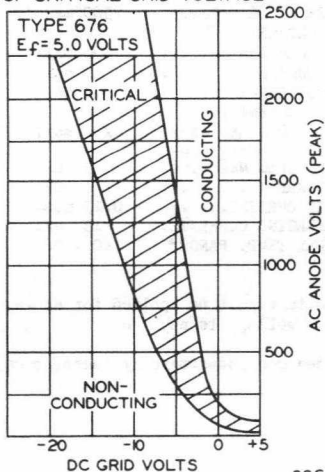


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OPERATIONAL REGION OF CRITICAL GRID VOLTAGE



92CS-6732

MAY 1, 1946

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