



632-B

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MERCURY-VAPOR THYRATRON

NEGATIVE-CONTROL TETRODE TYPE

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage 5[•] ac or dc volts

Current 5 amp

Cathode:

Minimum heating time prior to
tube conduction 5 minutes

Direct Interelectrode Capacitances (Approx.):

Grid No.1 to anode. 0.04 μ fGrid No.2 to anode. 3 μ fIonization Time (Approx.) 10 μ secDeionization Time (Approx.) 1000 μ secMaximum Critical Grid-No.1 Current. 2 μ amp

Anode Voltage Drop (Approx.) 12 volts

Mechanical:

Mounting Position Vertical, base down

Maximum Overall Length. 8-5/16"

Seated Length 7-1/2" $\pm$ 1/4"

Maximum Radius (Including side cap) 1-3/4"

Weight (Approx.) 9 oz

Bulb. T-18

Top Cap Skirted Medium (JETEC No.C1-29)

Side Cap. Saddle Medium

Base. Skirted-Medium-Shell Small 4-Pin

with Bayonet (JETEC No.A4-71)

Basing Designation for BOTTOM VIEW. 4CD

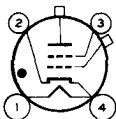
Pin 1-Heater

Pin 2-Cathode,

Circuit

Returns

Pin 3-Grid No.2



Pin 4-Heater,

Cathode

Top Cap-Anode

Side Cap-Grid No.1

Temperature Control:

Heating--When the ambient temperature is so low that the normal rise of condensed-mercury temperature above the ambient temperature will not bring the condensed-mercury temperature up to the minimum value of the operating range specified under *Maximum Ratings*, some form of heat-conserving enclosure or auxiliary heater will be required.

Cooling--When the operating conditions are such that the maximum value of the operating condensed-mercury temperature is exceeded, provision should be made for forced-air cooling sufficient to prevent exceeding the maximum value.

[•] Under operating conditions where the average anode current does not exceed 0.5 ampere, the heater voltage may be increased to 5.5 volts.



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MERCURY-VAPOR THYRATRON

IGNITOR-FIRING AND GRID-CONTROLLED RECTIFIER SERVICE

Maximum Ratings, Absolute Values:

For anode-supply frequency of 60 cps

Operating Condensed-Mercury
Temperature Range
40° to 80°C[■]

PEAK ANODE VOLTAGE:

Forward.	1500 max.	volts
Inverse.	1500 max.	volts

GRID-No.2 (SHIELD-GRID) VOLTAGE:

Peak, before tube conduction	-300 max.	volts
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GRID-No.1 (CONTROL-GRID) VOLTAGE:

Peak, before tube conduction	-1000 max.	volts
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CATHODE CURRENT:

Peak	30 max.	amp
Average*	2.5 max.	amp

Fault, for duration of 0.1

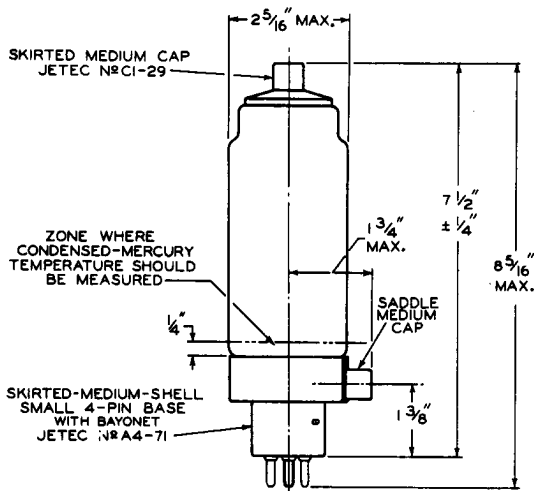
second max.	150 max.	amp
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AVERAGE GRID-No.2 CURRENT*	+0.25 max.	amp
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AVERAGE GRID-No.1 CURRENT*	+0.25 max.	amp
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■ Recommended temperature range of condensed mercury is 45° to 50°C.

* Averaged over any interval of 30 seconds maximum.

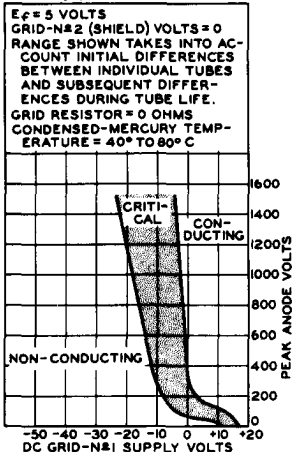




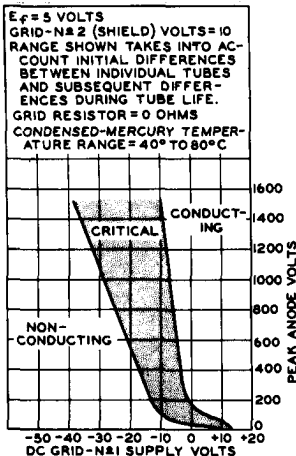
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MERCURY-VAPOR THYRATRON

OPERATIONAL RANGES
OF CRITICAL GRID-N#1 VOLTAGE

92CS-9008T



92CS-9007T