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5558

HALF-WAVE MERCURY-VAPOR RECTIFIER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:	<i>Min.</i>	<i>Av.</i>	<i>Max.</i>	
Voltage	4.75	5.0	5.25	volts
Current at 5 volts	—	4.5	4.9	amp

Cathode:

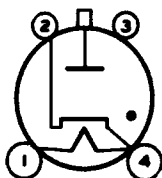
Heating Time, before tube conduction	5	—	—	minutes
Tube Voltage Drop	—	15	—	volts
Critical Anode Voltage	—	—	50	volts

Mechanical:

Mounting Position	Vertical, Base Down
Maximum Overall Length	7"
Seated Length	6-1/4" ± 1/4"
Maximum Diameter	3"
Bulb	ST-23
Cap	Medium (JETEC No. C1-5)
Base	Medium-Shell Small 4-Pin, Bayonet (JETEC No. A4-10)

BOTTOM VIEW

Pin 1—Heater
Pin 2—Cathode
(Anode
Return)



Pin 3—No
Conn.
Pin 4—Heater,
Cathode
Cap—Anode

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 ranges 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 range is exceeded, provision should be made for forced-air cooling sufficient to prevent exceeding the maximum value.

Temperature Rise of Condensed Mercury to Equilibrium Above Ambient

Temperature (Approx.):•

No Load	22 °C
Full Load	28 °C

• With heater volts = 4.75 and no heat-conserving enclosure.

← Indicates a change

APRIL 1, 1953

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA



HALF-WAVE MERCURY-VAPOR RECTIFIER

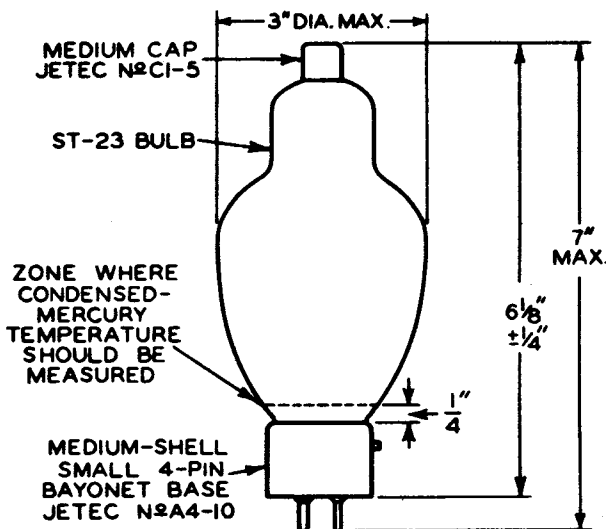
HALF-WAVE RECTIFIER

Maximum Ratings, Absolute Values: Up to 150 cps

Operating Condensed-Mercury
Temperature Range
30° to 80°C 30° to 60°C

PEAK INVERSE			
ANODE VOLTAGE	2000 max.	5000 max.	volts
CATHODE CURRENT:			
Peak	15 max.	15 max.	amp
Average [■]	2.5 max.	2.5 max.	amp
Fault, for duration of 0.1 second max.	200 max.	200 max.	amp

■ Averaged over any interval of 15 seconds maximum.



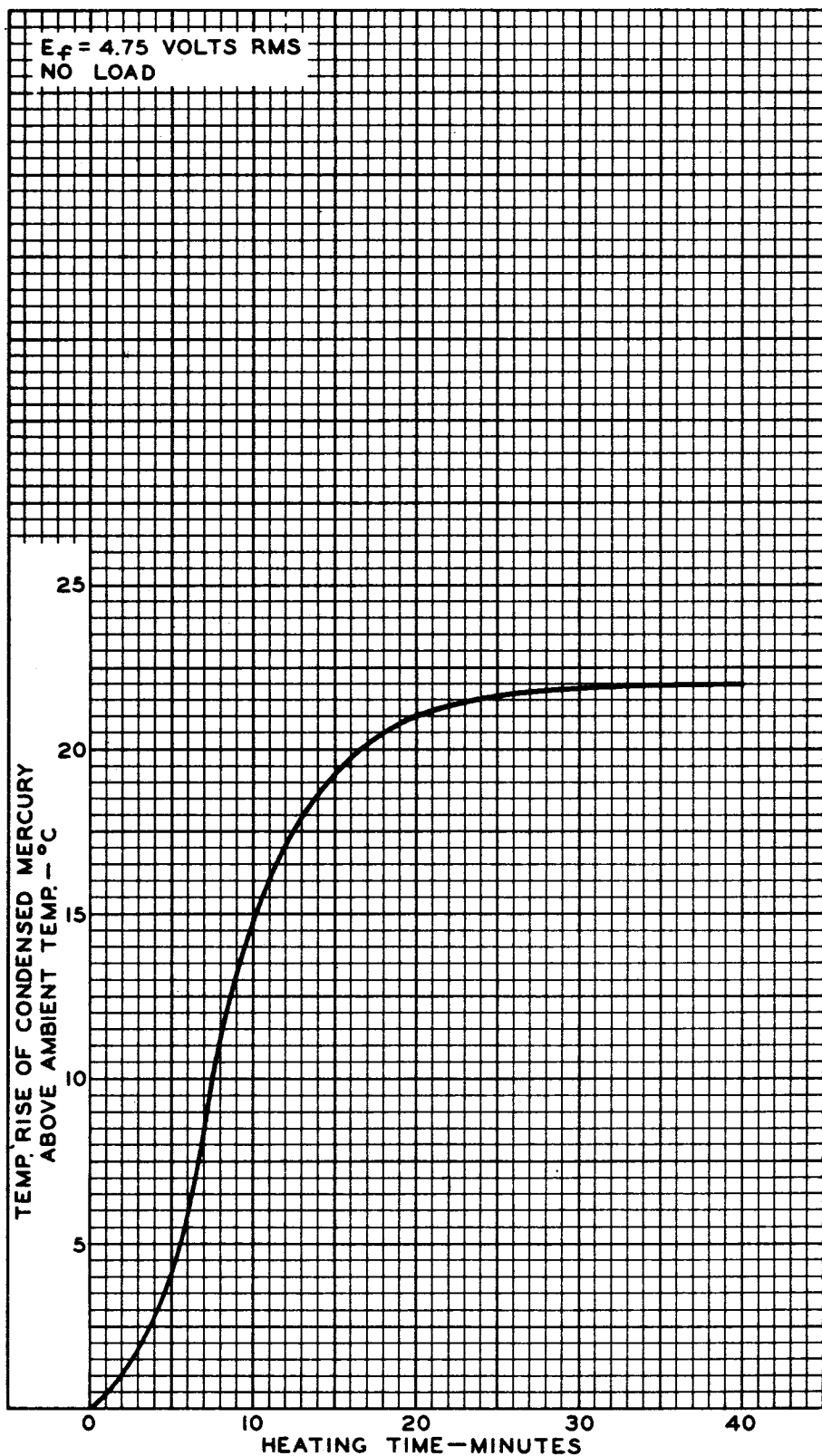
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RATE OF RISE OF COND.-MERCURY TEMPERATURE



OCT. 28, 1952

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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