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## VACUUM PHOTOTUBE

WITH S-5 RESPONSE

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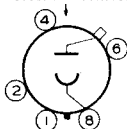
## DATA

## General:

|                                              |                                |
|----------------------------------------------|--------------------------------|
| Spectral Response . . . . .                  | S-5                            |
| Wavelength of Maximum Response. . . . .      | 3400 $\pm$ 500 Angstroms       |
| Cathode:                                     |                                |
| Shape . . . . .                              | Semi-Cylindrical               |
| Minimum Projected Length* . . . . .          | 1-5/16"                        |
| Minimum Projected Width*. . . . .            | 5/8"                           |
| Direct Interelectrode Capacitance . . . . .  | 0.6 $\mu$ f                    |
| Overall Length. . . . .                      | 4-1/8" $\pm$ 1/8"              |
| Seated Length . . . . .                      | 3-9/16" $\pm$ 1/8"             |
| Seated Length to Center of Cathode . . . . . | 2" $\pm$ 1/16"                 |
| Maximum Diameter. . . . .                    | 1-9/32"                        |
| Bulb. . . . .                                | T-9                            |
| Mounting Position . . . . .                  | Any                            |
| Cap . . . . .                                | Skirted Miniature              |
| Base. . . . .                                | Intermediate-Shell Octal 5-Pin |

BOTTOM VIEW  
DIRECTION OF  
INCIDENT RADIATION

Pin 1 - No  
  Connection  
Pin 2 - No  
  Connection  
Pin 4 - No  
  Connection



Pin 6 - No  
  Connection  
Pin 8 - Cathode  
Cap - Anode

## Maximum Ratings, Absolute Values:

|                                                |                  |                   |
|------------------------------------------------|------------------|-------------------|
| ANODE-SUPPLY VOLTAGE (DC or Peak AC)           | 250 max. . . . . | volts             |
| PEAK CATHODE CURRENT. . . . .                  | 30 max. . . . .  | $\mu$ amp         |
| PEAK CATHODE-CURRENT DENSITY. . . . .          | 100 max. . . . . | $\mu$ amp/sq. in. |
| AVERAGE CATHODE CURRENT <sup>o</sup> . . . . . | 10 max. . . . .  | $\mu$ amp         |
| AMBIENT TEMPERATURE . . . . .                  | 75 max. . . . .  | $^{\circ}$ C      |

## Characteristics:

|                                     | <u>Min.</u> | <u>Au.</u> | <u>Max.</u> |                                    |
|-------------------------------------|-------------|------------|-------------|------------------------------------|
| Dark Current at 250 Volts . . . . . | -           | -          | 0.0005      | . . . $\mu$ amp                    |
| Sensitivity:                        |             |            |             |                                    |
| At 3400 Angstroms . . . . .         | -           | 0.032      | -           | $\mu$ amp/ $\mu$ watt $\leftarrow$ |
| Luminous <sup>▲</sup> . . . . .     | 18          | 35         | 70          | $\mu$ amp/lumen $\leftarrow$       |

\* On plane perpendicular to indicated direction of incident radiation.

o Averaged over any interval of 30 seconds maximum.

▲ Measured under conditions specified on sheet "PHOTOTUBE SENSITIVITY AND SENSITIVITY MEASUREMENTS" at the front of this Section.

SPECTRAL-SENSITIVITY CHARACTERISTIC  
of Phototube having S-5 Response  
is shown at the beginning of this Section

 $\leftarrow$  Indicates a change.

JULY 3, 1950

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

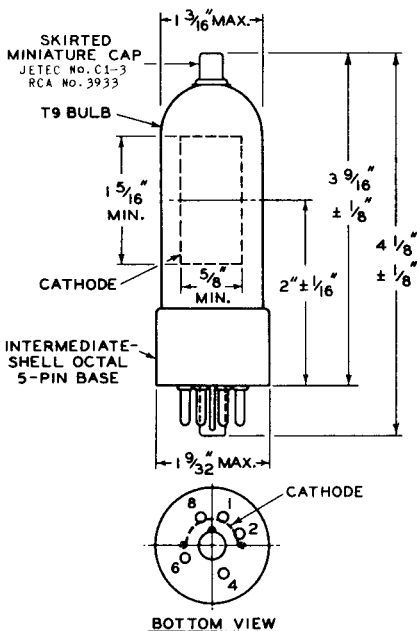
DATA

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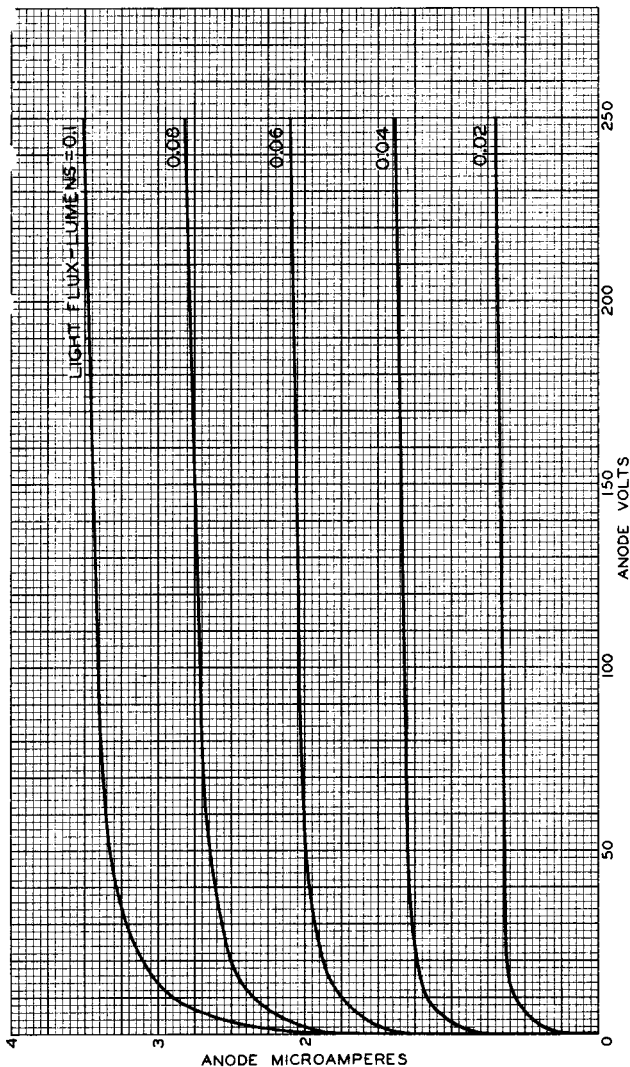
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## AVERAGE ANODE CHARACTERISTICS



APRIL 20, 1950

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