934 VACUUM PHOTOTUBE
WITH S-4 RESPONSE

DATA

General:
Spectral Response ........................................... S-4
Wavelength of Maximum Response. ........ 4000 ± 500 angstroms
Cathode:
  Shape ....................................................... Semi-Cylindrical
  Minimum Projected Length* ............................... 11/16"
  Minimum Projected Width* ................................. 7/16"
Direct Inter-electrode Capacitance ........ 1.5 μf
Maximum Overall Length. ......................... 2-13/32"
Maximum Seated Length ................................. 1-15/16"
Seated Length to Center of Cathode. .... 1-1/4" ± 3/32"
Maximum Diameter ...................................... 0.669"
Bulb .......................................................... T-5-1/4
Mounting Position ......................................... Any
Base .......................................................... Small-Shell Peewee 3-Pin
  Basing Designation for BOTTOM VIEW. ................. 2F1

Pin 1—No Connection  Pin 2—Anode  Pin 3—Cathode

Maximum Ratings, Absolute Values:
ANODE—SUPPLY VOLTAGE (DC or Peak AC) .... 250 max. ... volts
PEAK CATHODE CURRENT ................................ 12 max. ... μamp
PEAK CATHODE-CURRENT DENSITY ............. 100 max. μamp/sq.in.
AVERAGE CATHODE CURRENT* ................... 4 max. ... μamp
AMBIENT TEMPERATURE ................................. 75 max. ... °C

Characteristics:

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<th>Min.</th>
<th>Av.</th>
<th>Max.</th>
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<tr>
<td>DC Dark Current°</td>
<td>—</td>
<td>—</td>
<td>0.005</td>
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Sensitivity:
At 4000 angstroms ................................ 0.028 — μamp/μwatt
Luminous ........................................  15  30  70 μamp/lumen

* On plane perpendicular to indicated direction of incident light.
° Averaged over any interval of 30 seconds maximum.
° At 25°C and 250 volts.

OUTLINE DIMENSIONS for Type 934
are the same as those for Type 927

SPECTRAL-SENSITIVITY CHARACTERISTIC
of Phototube having S-4 Response
is shown at the front of this Section

Indicates a change.

SEPT. 1, 1950  TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY
Vacuum Phototube
SIDE-ON TYPE HAVING S-4 RESPONSE

DATA

General:
Spectral Response .................................. S-4
Wavelength of Maximum Response............. 4000 ± 500 angstroms
Cathode:
  Shape .................................. Semicylindrical
  Minimum projected length^a .................. 11/16''
  Minimum projected width^a .................. 7/16''
Direct Interelectrode Capacitance (Approx.) .... 1.5 μf
Maximum Overall Length ..................... 2-13/32''
Maximum Seated Length ..................... 1-15/16''
Seated Length to Center of Cathode .......... 1-1/4'' ± 3/32''
Maximum Diameter .......................... 0.669''
Operating Position .......................... Any
Weight (Approx.) .......................... 0.4 oz ←
Bulb. .................................. T5-1/4
Socket .................................. Amphenol No.78S3S-T, or equivalent ←
Base .................................. Small-Shell Peewee 3-Pin (JEDEC No.A3-1)
Basing Designation for BOTTOM VIEW .......... 2F

DIRECTION OF LIGHT

Pin 1 - No Internal Connection
Pin 2 - Anode
Pin 3 - Photocathode

Maximum Ratings, Absolute-Maximum Values:
ANODE-SUPPLY VOLTAGE
  (DC or Peak AC) ................................ 250 max. volts
AVERAGE CATHODE-CURRENT DENSITY^b ........ 30 max. μa/sq. in.
AVERAGE CATHODE CURRENT^b .................. 4 max. μa
AMBIENT TEMPERATURE .......................... 75 max. °C

Characteristics:
With an anode-supply voltage of 250 volts

Min. Median Max.

Sensitivity:
  Radiant, at 4000 angstroms ... – 0.029 – amp/watt
  Luminous^c ................................ 19 30 75 μa/lumen
  Anode Dark Current at 25° C ........ – – 0.005 μa

← Indicates a change.
On plane perpendicular to indicated direction of incident light.

b Averaged over any interval of 30 seconds maximum.

c For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870° K. A 1-megohm load resistor and a light input of 0.1 lumen are used.

SPECTRAL-SENSITIVITY CHARACTERISTIC
OF PHOTOSENSITIVE DEVICE HAVING S-4 RESPONSE
is shown at the front of this section

DIMENSIONAL OUTLINE
shown under Type 927 also applies to the 934
LIGHT SOURCE IS A TUNGSTEN—FILAMENT LAMP OPERATED AT COLOR TEMPERATURE OF 2870°C K.

AVERAGE ANODE CHARACTERISTICS

ANODE MICROAMPERES

ANODE VOLTS

92CM-6479RI

RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
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