



934

934

VACUUM PHOTOTUBE

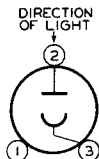
WITH S-4 RESPONSE

DATA

General:

Spectral Response	S-4
Wavelength of Maximum Response.	4000 $\pm$ 500 angstroms
Cathode:	
Shape	Semi-Cylindrical
Minimum Projected Length*	11/16"
Minimum Projected Width*	7/16"
Direct Interelectrode Capacitance	1.5 μ f
Maximum Overall Length.	2-13/32" ←
Maximum Seated Length	1-15/16" ←
Seated Length to Center of Cathode.	1-1/4" $\pm$ 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.	μ amp
PEAK CATHODE-CURRENT DENSITY.	100 max. μ amp/sq.in.	
AVERAGE CATHODE CURRENT*.	4 max.	μ amp
AMBIENT TEMPERATURE	75 max.	$^{\circ}$ C

Characteristics:

	<u>Min.</u>	<u>Au.</u>	<u>Max.</u>	
DC Dark Current ^a	—	—	0.005	μ amp
Sensitivity:				
At 4000 angstroms	—	0.028	—	μ amp/ μ watt
Luminous.	15	30	70	μ amp/lumen

* On plane perpendicular to indicated direction of incident light.

● Averaged over any interval of 30 seconds maximum.

□ At 25 $^{\circ}$ 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

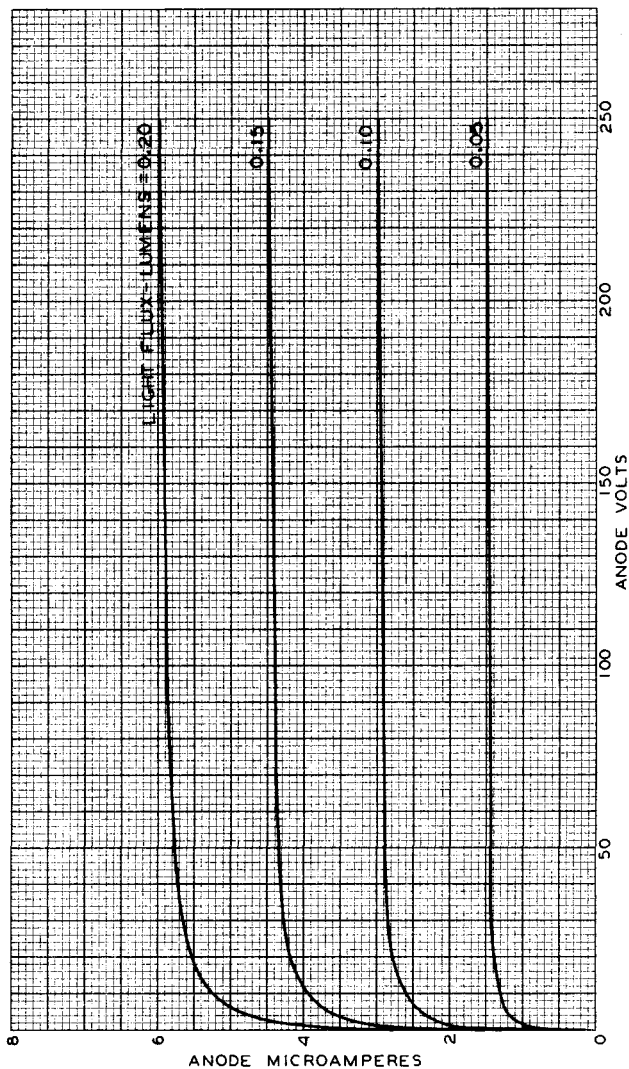
← Indicates a change.

934



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AVERAGE ANODE CHARACTERISTICS



OCT. 16, 1944

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6479

Vacuum Phototube

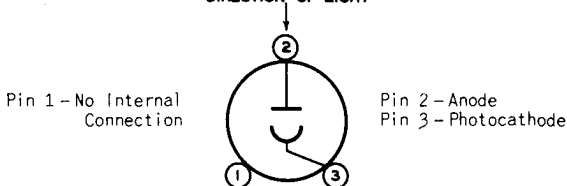
SIDE-ON TYPE HAVING S-4 RESPONSE

DATA

General:

Spectral Response	S-4
Wavelength of Maximum Response.	4000 $\pm$ 500 angstroms
Cathode:	
Shape	Semicylindrical
Minimum projected length ^a	11/16"
Minimum projected width ^a	7/16"
Direct Interelectrode Capacitance (Approx.)	1.5 μ f
Maximum Overall Length.	2-13/32"
Maximum Seated Length	1-15/16"
Seated Length to Center of Cathode.	1-1/4" $\pm$ 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



Maximum Ratings, Absolute-Maximum Values:

ANODE-SUPPLY VOLTAGE		
(DC or Peak AC)	250 max.	volts
AVERAGE CATHODE-CURRENT DENSITY ^b	30 max.	μ a/sq. in.
AVERAGE CATHODE CURRENT ^b	4 max.	μ a
AMBIENT TEMPERATURE	75 max.	$^{\circ}$ 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	μ a/lumen
Anode Dark Current at 25 $^{\circ}$ C	-	-	0.005	μ a

← Indicates a change.



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

DATA 1
3-62

- a** 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.

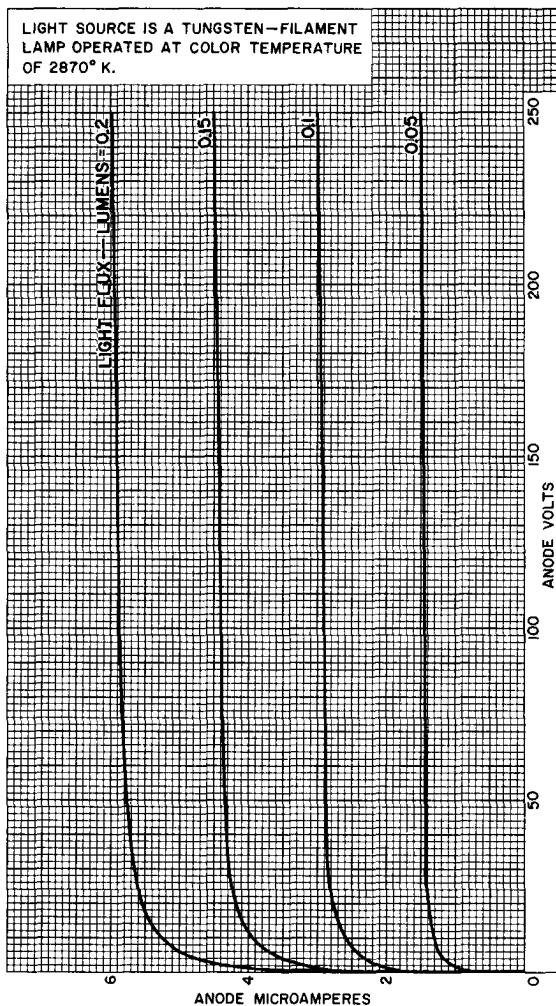
**SPECTRAL-SENSITIVITY CHARACTERISTIC
OF PHOTOSENSITIVE DEVICE HAVING S-4 RESPONSE
is shown at the front of this section**

**DIMENSIONAL OUTLINE
shown under Type 927 also applies to the 934**



AVERAGE ANODE CHARACTERISTICS

LIGHT SOURCE IS A TUNGSTEN-FILAMENT
LAMP OPERATED AT COLOR TEMPERATURE
OF 2870° K.



92CM-6479RI

