



917

917

HIGH-VACUUM PHOTOTUBE

WITH ANODE TERMINAL CAP

Cathode	Semi-cylindrical	
Photosurface		S2
Window Area		1.0 sq.in.
Direct Interelectrode Capacitance		2.0 μ f
Maximum Overall Length		4-3/16" to 4-7/16"
Maximum Seated Height		3-9/16" to 3-13/16"
Maximum Diameter		1-3/16"
Bulb (lime glass)		T-8
Cap		Small Metal
Base		Tapered Small 4-Pin
Pin 1 - No Connection		Pin 4 - Cathode (-)
Pin 2 - No Connection		Cap - Anode (+)
Pin 3 - No Connection		
Mounting Position		Any



BOTTOM VIEW

*Maximum Ratings Are Absolute Values***MAXIMUM RATINGS and CHARACTERISTICS**

Anode-Supply Voltage (D.C. or Peak A.C.)	500 max.	volts
Anode Current*	30 max.	μ amp.
Ambient Temperature	100 max.	$^{\circ}$ C
Luminous Sensitivity*	20	μ amp./lumen
Sensitivity at 8000 Angstroms	0.0020	μ amp./ μ watt
D-C Resistance of Load:		
<i>With anode-supply voltage of</i> 250 volts		1 min. megohm
<i>With anode-supply voltage of</i> 500 volts		10 min. megohms

* On the basis of the use of a sensitive cathode area 1/2" in diameter.

* Subject to variations as explained on sheet PHOTOTUBE SENSITIVITY MEASUREMENTS in the front of this section.

OUTLINE DIMENSIONS

for the 917 are the same as those for the 919.

Spectral Sensitivity Characteristic of S2 Photosurface
in lime-glass bulb is shown at beginning
of this section.

← Indicates a change.

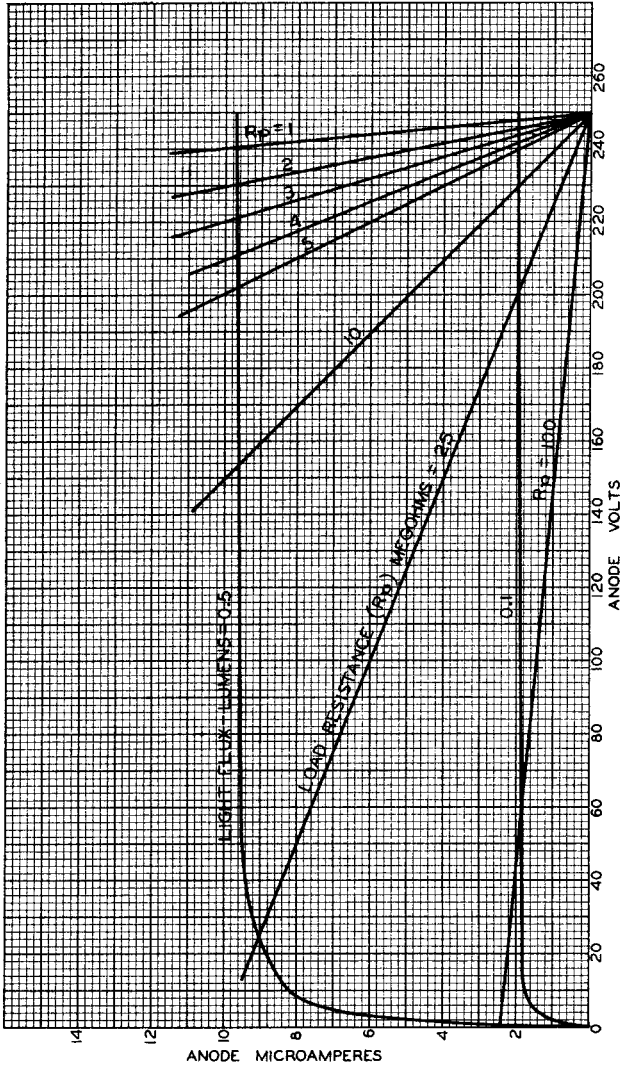
Mar. 20, 1943

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA



AVERAGE ANODE CHARACTERISTICS





917

917

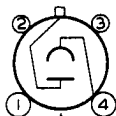
VACUUM PHOTOTUBE

LOW-LEAKAGE TYPE WITH ANODE-TERMINAL CAP AND S-I RESPONSE

*For light-measuring and relay applications***DATA****General:**

Spectral Response.	S-1
Wavelength of Maximum Response	8000 ± 1000 angstroms
Cathode:	
Shape.	Semicylindrical
Minimum projected length*.	1-9/16"
Minimum projected width*.	5/8"
Direct Interelectrode Capacitance.	2.2 μmf
Maximum Overall Length	4-7/16"
Seated Length.	3-11/16" ± 1/8"
Seated Length to Center of Cathode	2-1/8" ± 3/32"
Maximum Diameter	1-1/8"
Mounting Position.	Any
Weight (Approx.)	1.1 oz
Bulb	T-8
Cap.	Small (JETEC No. C1-1)
Base	Dwarf-Shell Small 4-Pin (JETEC No. A4-26)
Basing Designation for BOTTOM VIEW	1A

Pin 1 - No Connection
Pin 2 - No Connection



Pin 3 - No Connection
Pin 4 - Cathode
Cap - Anode

Maximum Ratings, Absolute Values:

ANODE-SUPPLY VOLTAGE (DC or Peak AC)	500 max.	volts
AVERAGE CATHODE-CURRENT DENSITY ^o	30 max.	μamp/sq. in.
AVERAGE CATHODE CURRENT ^o	10 max.	μamp
AMBIENT TEMPERATURE.	100 max.	°C

Characteristics, At 250 Volts on Anode:

	Min.	Median	Max.	
Sensitivity:				
Radiant, at				
8000 angstroms	-	0.0018	-	μamp/μwatt
Luminous [▲]	12	20	40	μamp/lumen
Anode Dark Current				
at 25°C.	-	-	0.005	μamp

* On plane perpendicular to indicated direction of incident light.

^o Averaged over any interval of 30 seconds maximum.[▲] For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870°K. A dc anode supply of 250 volts, a 1-megohm load resistor, and a light input of 0.1 lumen are used.

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

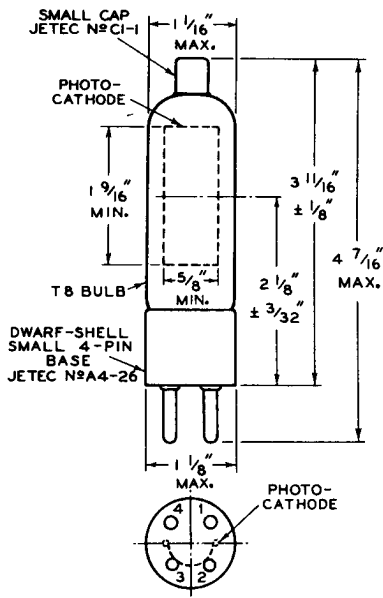
← Indicates a change.

917



917

VACUUM PHOTOTUBE



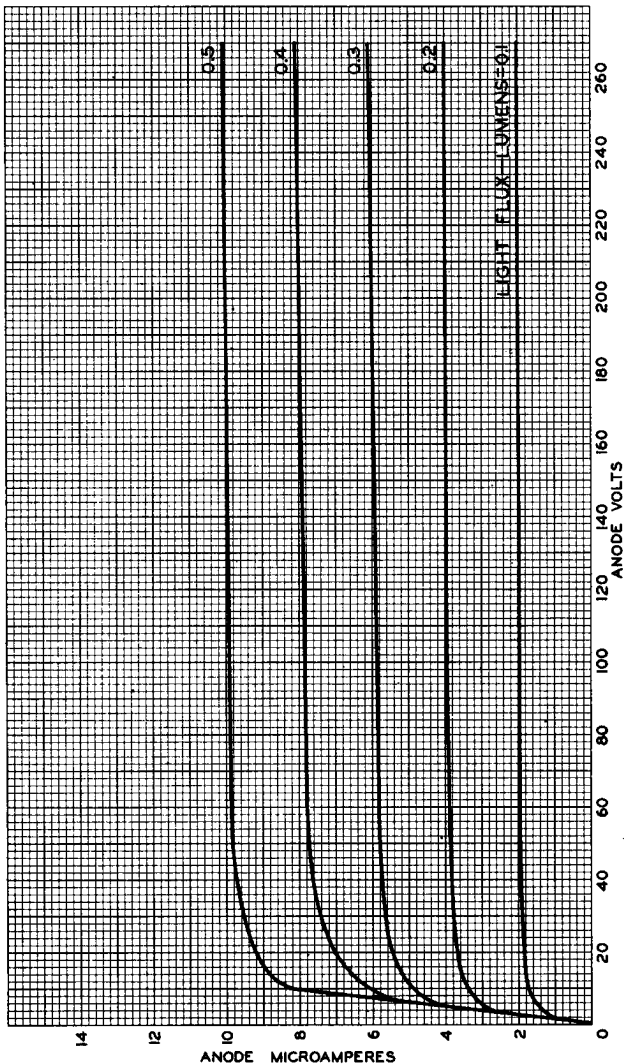
92CS-4359R6



917

917

AVERAGE ANODE CHARACTERISTICS



LIGHT FLUX - LUMENS/CM²

ANODE MICROAMPERES

ANODE VOLTS

TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-4360R2