



922

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HIGH-VACUUM PHOTOTUBE

CARTRIDGE TYPE

Cathode	Semi-cylindrical	
Photosurface		S2
Window Area		0.4 sq. in.
Direct Inter-electrode Capacitance		0.5 μ f
Overall Length		1-21/32 $\pm$ 1/16"
Maximum Diameter		15/16"
Bulb		Lime glass
Terminal Connections (see outline drawing)		Special
Terminal Mounting		RCA Stock No. 9926
Mounting Position		Any

*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:	

With Anode-supply voltage of
250 volts 1 min. megohm

With anode-supply voltage of
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.

CURVES

for the 922 are the same as those for the 917.

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



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VACUUM PHOTOTUBE

CARTRIDGE TYPE WITH S-I RESPONSE

*For relay applications***DATA****General:**

Spectral Response S-1
 Wavelength of Maximum Response 8000 $\pm$ 1000 angstroms
 Cathode:

Shape Semicylindrical
 Minimum projected length* 5/8"
 Minimum projected width* 1/2"

Direct Interelectrode Capacitance 1 μ f

Overall Length 1-21/32" + 1/32" - 1/16" ←

Seated Length 1-13/32" $\pm$ 1/32" ←

Length from Center of Useful Cathode Area
 to Plane A-A' (See Dimensional Outline) . . 11/16" $\pm$ 1/16"

Maximum Diameter 0.890"

Mounting Position Any ←

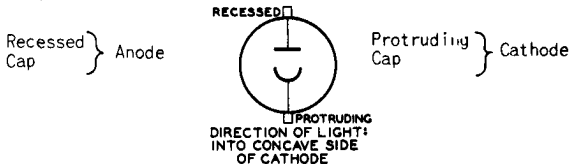
Weight (Approx.) 0.4 oz ←

Terminals:

Recessed cap. JETEC No. J1-23 ←

Protruding cap. JETEC No. J1-24 ←

Basing Designation 2A0 ←

**Maximum Ratings, Absolute Values:**

ANODE-SUPPLY VOLTAGE (DC or Peak AC).	500 max.	volts	
AVERAGE CATHODE-CURRENT DENSITY ^o . . .	30 max.	μ amp/sq. in.	←
AVERAGE CATHODE CURRENT ^o	5 max.	μ amp	
AMBIENT TEMPERATURE	100 max.	$^{\circ}$ C	

Characteristics, At 250 Volts on Anode:

	Min.	Median	Max.	
Sensitivity:				
Radiant, at				
8000 angstroms. . .	—	0.0018	—	μ amp/ μ watt ←
Luminous [▲]	10	20	40	μ amp/lumen
Anode Dark Current				
at 25 $^{\circ}$ C	—	—	0.005	μ amp

* 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 $^{\circ}$ K. A dc anode supply of 250 volts, a 1-megohm load resistor, and a light input of 0.1 lumen are used.

← indicates a change.

