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VACUUM PHOTOTUBE

CARTRIDGE TYPE WITH S-1 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 mfOverall Length. 1-21/32" + 1/32" - 1/16" $\leftarrow$ Seated Length 1-13/32" $\pm$ 1/32"

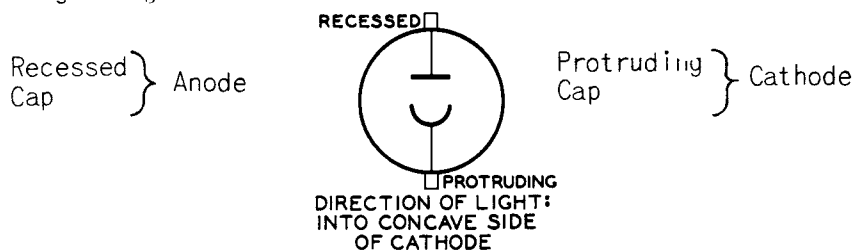
Length from Center of Useful Cathode Area

to Plane A-A' (*See Dimensional Outline*) 11/16" $\pm$ 1/16"

Maximum Diameter. 0.890"

Mounting Position Any $\leftarrow$ Weight (Approx.). 0.4 oz $\leftarrow$ **Terminals:**

Recessed cap. JETEC No. J1-23

Protruding cap. JETEC No. J1-24 $\leftarrow$ Basing Designation. 2A9 $\leftarrow$ **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. $\leftarrow$ AVERAGE CATHODE CURRENT^o. 5 max. μ ampAMBIENT 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 $\leftarrow$ Luminous $\blacktriangle$ 20 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.

$\blacktriangle$ 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.

 $\leftarrow$ Indicates a change.

