HIGH-VACUUM PHOTOTUBE
WITH ANODE TERMINAL CAP

Cathode
Photosurface
Window Area
Direct Interelectrode Capacitance
Maximum Overall Length
Maximum Seated Height
Maximum Diameter
Bulb (lime glass)
Cap
Base
Pin 1—No Connection
Pin 2—No Connection
Pin 3—No Connection
Mounting Position

Semi-cylindrical
S2
1.0 sq.in.
2.0 μuf
4–3/16" to 4–7/16"
3–9/16" to 3–13/16"
1–3/16"
T–8
Small Metal
Tapered Small 4-Pin
Pin 4—Cathode (–)
Cap—Anode (+)
Any

DIRECTION OF LIGHT

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. μamp.
Ambient Temperature 100 max. °C
Luminous Sensitivity* 20 μamp./lumen
Sensitivity at 8000 Angstroms 0.0020 μamp./μwatt
D–C Resistance of Load:
With anode–supply voltage of
250 volts 1 min. megohm
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
VACUUM PHOTOTUBE
LOW-LEAKAGE TYPE WITH ANODE-TERMINAL CAP AND S-1 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 μf
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

DIRECTION OF LIGHT

Maximum Ratings, Absolute Values:
ANODE-SUPPLY VOLTAGE (DC or Peak AC).... 500 max. volts
AVERAGE CATHODE-CURRENT DENSITY°........ 30 max. μamp/sq.in.
AVERAGE CATHODE CURRENT°.................. 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.
° 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 2870K. 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-1 Response
is shown at front of this Section

Indicates a change.

10-56