GAS PHOTOTUBE

Cathode  Semi-cylindrical
Photosurface  S2
Window Area  0.4 sq.in.
Direct Interelectrode Capacitance  2 µf
Maximum Overall Length  3-9/16"
Maximum Seated Height  2-15/16"
Maximum Diameter  1-3/16"
Bulb (lime glass)  T-9
Base  Small 4-Pin
Pin 1-No Connection  Pin 3-No Connection
Pin 2-Anode (+)  Pin 4-Cathode (–)
Mounting Position  Any

Maximum Ratings Are Absolute Values

MAXIMUM RATINGS and CHARACTERISTICS

Anode-Supply Voltage (D.C. or Peak A.C.) 90 max. volts
Anode Current*  20 max. µamp.
Ambient Temperature  100 max. ºC
Luminous Sensitivity:*
At 0 cycles  135 µamp./lumen
At 5000 cycles  111 µamp./lumen
At 10000 cycles  101 µamp./lumen
Sensitivity at 8000 Angstroms  0.0130 µamp./µwatt
Gas Amplification Factor  Not over 10
D-C Resistance of Load:

With anode-supply voltage of 75 volts or less

For d-c currents [above 3.5 µamp.  0.1 min. megohm
below 3.5 µamp.  No Minimum

With anode-supply voltage of 90 volts

For d-c currents [above 2 µamp.  4 min. megohms
below 2 µamp.  1 min. megohm

* 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 923 are the same as those for the 930.

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
**RCA**

**923 GAS PHOTOTUBE**

**W/ITH S-1 RESPONSE**

**DATA**

**General:**
Spectral Response ............... S-1
Wavelength of Maximum Response ... 8000 ± 1000 Angstroms
Cathode:
  Shape .......... Semi-Cylindrical
  Minimum Projected Length* .......... 21/32"
  Minimum Projected Width* .......... 5/8"
Direct Inter-electrode Capacitance .......... 2 µF
Maximum Overall Length .......... 3-9/16"
Maximum Seated Length .......... 2-15/16"
Seated Length to Center of Cathode .......... 1-31/32" ± 3/32"
Maximum Diameter .......... 1-3/16"
Bulb. .......... T-9
Mounting Position .......... Any
Base. .......... Small-Shell Small 4-Pin
Basing Designation for BOTTOM VIEW .......... 2K

Pin 1 - No Connection
Pin 2 - Anode
Pin 3 - No Connection
Pin 4 - Cathode

Direction of Light

Maximum Ratings, Characteristics, and Curves for the 923 are the same as those shown for Type 920.

* On plane perpendicular to indicated direction of incident light.

* Indicates a change.

AUGUST 15, 1947
GAS PHOTOTUBE

CATHODE

T9 BULB

SMALL-SHELL SMALL 4-PIN BASE

1 3/16 MAX.

13/16 MIN.

2 15/16 MAX.

3 9/16 MAX.

3 1/32 ± 3/32

1 3/16 MAX.

BOTTOM VIEW

92CM-4788R3

AUGUST 15, 1947

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY