Vacuum Phototube

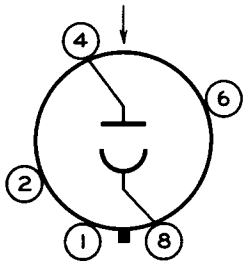
SIDE-ON TYPE HAVING S-I RESPONSE

DATA

General:

Spectral Response S-1
Wavelength of Maximum Response . . . . 8000 ± 1000 angstroms
Cathode:
  Shape . . . . . Semicylindrical
  Minimum projected length[a] . . . . . 13/16"
  Minimum projected width[a] . . . . . 5/8"
Direct Interelectrode Capacitance (Approx.) . . . . . 1.6 μμf
Maximum Overall Length . . . . . 2-5/8"
Maximum Seated Length . . . . . 2-1/16"
Seated Length to Center of Cathode . . . . . 1-13/32" ± 3/32" ←
Maximum Diameter . . . . . 1-9/32"
Operating Position . . . . . Any
Weight (Approx.) . . . . . 0.8 oz ←
Bulb T9
Socket . . . . . Cinch No.8JM-1, or equivalent ←
Base . . . . . Intermediate-Shell Octal 5-Pin, Arrangement 1 (JEDEC Group 1, No.B5-10)
  Basing Designation for BOTTOM VIEW 3J

DIRECTION OF RADIATION



Pin 1 – No Internal Connection
Pin 2 – No Internal Connection
Pin 4 – Anode
Pin 6 – No Internal Connection
Pin 8 – Photocathode

Maximum Ratings, *Absolute-Maximum Values:* ←

ANODE-SUPPLY VOLTAGE (DC or Peak AC)	250 max.	volts
AVERAGE CATHODE-CURRENT DENSITY[b]	30 max.	μa/sq.in.
AVERAGE CATHODE CURRENT[b]	5 max.	μa
AMBIENT TEMPERATURE	100 max.	°C

Characteristics: ←

With an anode-supply voltage of 250 volts

	Min.	Median	Max.	
Sensitivity:				
Radiant, at 8000 angstroms	–	0.0019	–	amp/watt
Luminous[c]	12	20	40	μa/lumen
Anode Dark Current at 25° C	–	–	0.0125	μa

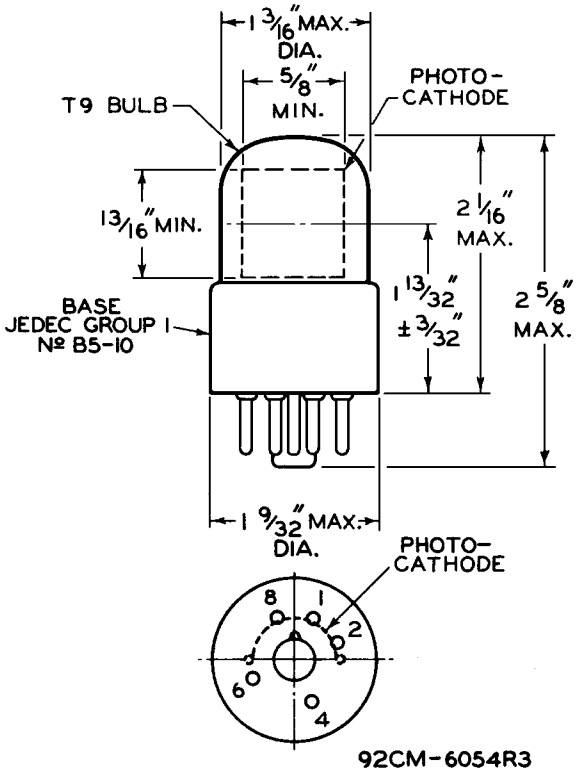
← Indicates a change.

[a] On plane perpendicular to indicated direction of radiation.

[b] Averaged over any interval of 30 seconds maximum.

[c] For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870° K. A 1-megohm load resistor and a light input of 0.1 lumen are used.

SPECTRAL-SENSITIVITY CHARACTERISTIC OF PHOTOSENSITIVE DEVICE HAVING S-I RESPONSE is shown at the front of this section



RCA

925

AVERAGE ANODE CHARACTERISTICS