Vacuum Phototube

SIDE-ON TYPE HAVING S-4 RESPONSE

DATA

General:
Spectral Response: S-4
Wavelength of Maximum Response: 4000 ± 500 angstroms
Cathode:
Shape: Semicylindrical
Minimum projected length: 13/16"
Minimum projected width: 5/8"
Direct Interelectrode Capacitance (Approx.): 2.6 \( \mu F \)
Maximum Overall Length: 3-1/16"
Maximum Seated Length: 2-1/2"
Seated Length to Center of Cathode: 1-5/8" ± 3/32"
Maximum Diameter: 1-9/32"
Operating Position: Any
Weight (Approx.): 0.9 oz
Bulb: T9
Socket: Cinch No.8MJ-1, or equivalent
Base: Intermediate-Shell Octal 5-Pin, Arrangement 1 (JEDEC Group 1, No.55-10)
Basing Designation for BOTTOM VIEW: 3J

DIRECTION OF LIGHT

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

Maximum Ratings, Absolute—Maximum Values:

ANODE—SUPPLY VOLTAGE
(AC or Peak AC) 250 max. volts
AVERAGE CATHODE—CURRENT DENSITY  25 max. \( \mu A/\text{sq. in.} \)
AVERAGE CATHODE CURRENT  5 max. \( \mu A \)
AMBIENT TEMPERATURE  75 max. °C

Characteristics:

With an anode—supply voltage of 250 volts

Sensitivity:
Radiant, at 4000 angstroms. – 0.044 – amp/watt
Luminous  20 45 100 \( \mu A/\text{lumen} \)
Anode Dark Current at 25°C – 0.25 \( \mu A \)

\( \text{\textcopyright} \) indicates a change.
a. On plane perpendicular to indicated direction of incident light.
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 PHOTOREACTIVE DEVICE HAVING 5-4 RESPONSE
is shown at front of this section

DIMENSIONAL OUTLINE
shown under Type 5581 also applies to the 5653

AVERAGE-ANODE-CHARACTERISTICS CURVE
shown under Type 929 also applies to the 5653