

Vacuum Phototube

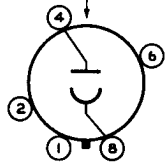
SIDE-ON TYPE HAVING S-4 RESPONSE

DATA

General:

Spectral Response	S-4
Wavelength of Maximum Response.	4000 ± 500 angstroms
Cathode:	
Shape	Semicylindrical
Minimum projected length ^a	13/16"
Minimum projected width ^a	5/8"
Direct Interelectrode Capacitance (Approx.)	2.6 μf
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.8JM-1, or equivalent ←
Base.	Intermediate-Shell Octal 5-Pin, Arrangement 1 (JEDEC Group 1, No.85-10)
Basing Designation for BOTTOM VIEW.3J

DIRECTION OF LIGHT



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	25 max.	μa/sq. in.
AVERAGE CATHODE CURRENT ^b	5 max.	μa
AMBIENT TEMPERATURE	75 max.	°C

Characteristics:

With an anode-supply voltage of 250 volts

Min. Median Max.

Sensitivity:				
Radiant, at 4000 angstroms.	-	0.044	-	amp/watt
Luminous ^c	20	45	100	μa/lumen
Anode Dark Current at 25° C	-	-	0.25	μa

← indicates a change.



5653

- 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 PHOTSENSITIVE DEVICE HAVING S-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

