935

VACUUM PHOTOTUBE

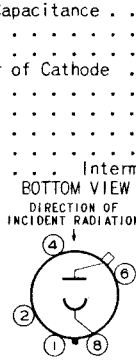
WITH S-5 RESPONSE

DATA

General:

Spectral Response	S-5
Wavelength of Maximum Response	3400 ± 500 Angstroms
Cathode:	
Shape	Semi-Cylindrical
Minimum Projected Length*	1-5/16"
Minimum Projected Width*	5/8"
Direct Interelectrode Capacitance	0.6 μμf
Overall Length	4-1/8" ± 1/8"
Seated Length	3-9/16" ± 1/8"
Seated Length to Center of Cathode	2" ± 1/16"
Maximum Diameter	1-9/32"
Bulb	T-9
Mounting Position	Any
Cap	Skirted Miniature
Base	Intermediate-Shell Octal 5-Pin

BOTTOM VIEW



Pin 1 – No Connection
Pin 2 – No Connection
Pin 4 – No Connection
Pin 6 – No Connection
Pin 8 – Cathode
Cap – Anode

Maximum Ratings, ***Absolute Values*****:**

ANODE-SUPPLY VOLTAGE (DC or Peak AC)	250 max.	volts
PEAK CATHODE CURRENT	30 max.	μamp
PEAK CATHODE-CURRENT DENSITY	100 max.	μamp/sq.in.
AVERAGE CATHODE CURRENT°	10 max.	μamp
AMBIENT TEMPERATURE	75 max.	°C

Characteristics:

	Min.	*Av.*	*Max.*	
Dark Current at 250 Volts	–	–	0.0005	μamp
Sensitivity:				
At 3400 Angstroms	–	0.032	–	μamp/μwatt ←
Luminous▲	18	35	70	μamp/lumen ←

* On plane perpendicular to indicated direction of incident radiation.

° Averaged over any interval of 30 seconds maximum.

▲ Measured under conditions specified on sheet "PHOTOTUBE SENSITIVITY AND SENSITIVITY MEASUREMENTS" at the front of this Section.

SPECTRAL-SENSITIVITY CHARACTERISTIC
of Phototube having S-5 Response
is shown at the beginning of this Section

← Indicates a change.

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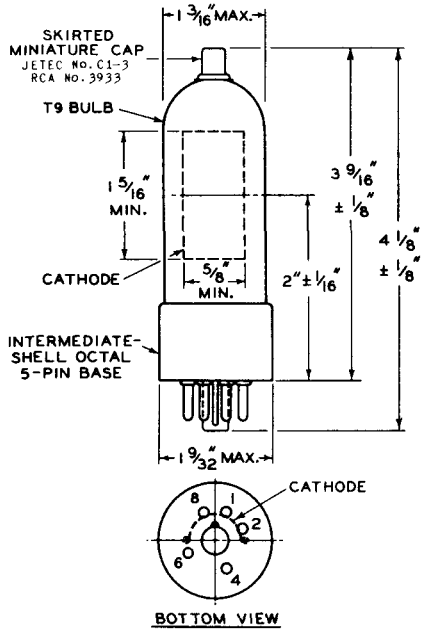
VACUUM PHOTOTUBE



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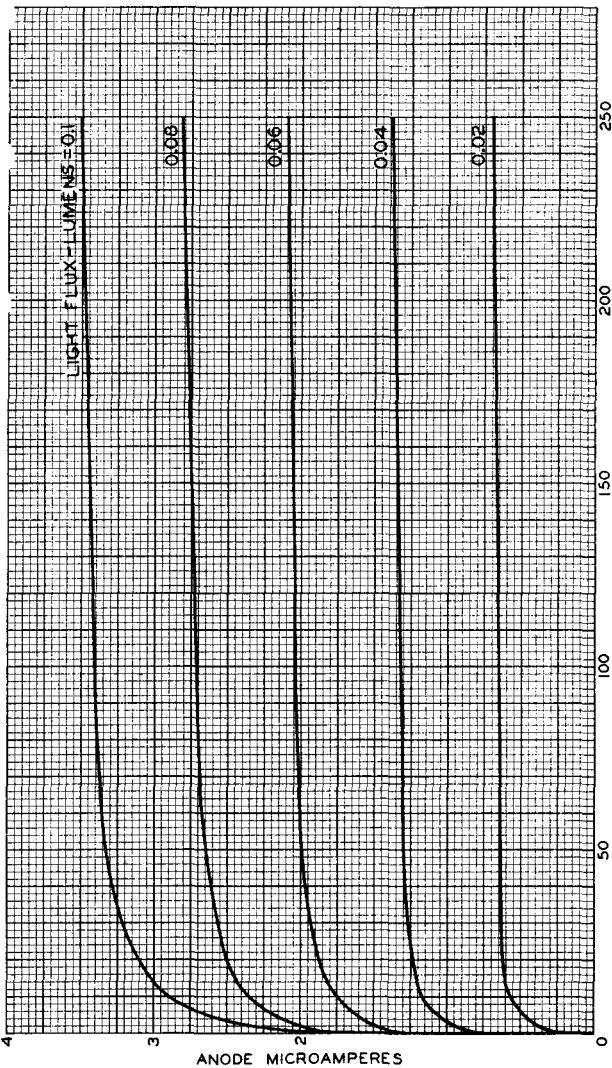
AVERAGE ANODE CHARACTERISTICS



Vacuum Phototube

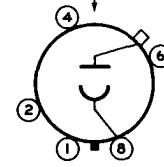
SIDE-ON TYPE HAVING S-5 RESPONSE

DATA

General:

Spectral Response	S-5
Wavelength of Maximum Response	3400 ± 500 angstroms
Cathode:	
Shape	Semicylindrical
Minimum projected length[a]	1-5/16"
Minimum projected width[a]	5/8"
Direct Interelectrode Capacitance (Approx.)	0.6 μμf
Maximum Overall Length	4-1/4"
Seated Length	3-9/16" ± 1/8"
Seated Length to Center of Cathode	2" ± 1/16"
Maximum Diameter	1-9/32"
Operating Position	Any
Weight (Approx.)	1 oz ←
Bulb	T9
Cap	Skirted Miniature (JEDEC No.C1-3) ←
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	1C

DIRECTION OF RADIATION



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

Maximum Ratings, *Absolute-Maximum Values:* ←

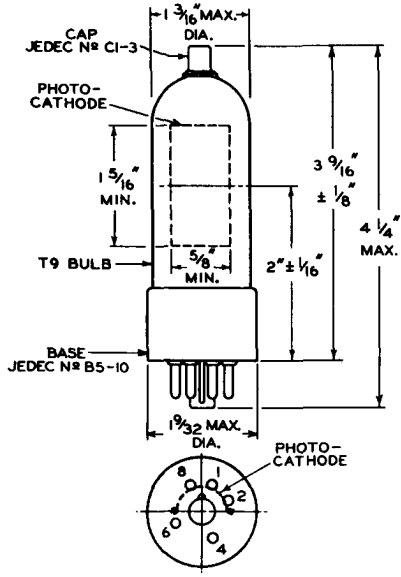
ANODE-SUPPLY VOLTAGE (DC or Peak AC)	250 max.	volts
AVERAGE CATHODE-CURRENT DENSITY[b]	30 max.	μa/sq.in.
AVERAGE CATHODE CURRENT[b]	10 max.	μa
AMBIENT TEMPERATURE	75 max.	°C

Characteristics: ←

With an anode-supply voltage of 250 volts

	Min.	Median	Max.	
Sensitivity:				
Radiant, at 3400 angstroms	–	0.043	–	amp/watt
Luminous[c]	18	35	70	μa/lumen
Anode Dark Current at 25° C.	–	–	0.0005	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-5 RESPONSE is shown at the front of this section