



IP41

GAS PHOTOTUBE

END TYPE WITH S-1 RESPONSE

IP41

DATA

General:

Spectral Response	S-1
Wavelength of Maximum Response.	8000 ± 1000 angstroms
Cathode:	
Shape	Circular
Minimum Diameter.	9/16"
Direct Interelectrode Capacitance	1.8 μ f
Maximum Overall Length.	2-1/16" ←
Maximum Seated Length	1-19/32" ←
Maximum Diameter.	13/16"
Bulb.	T-6
Mounting Position	Any
Base.	Small-Shell Peewee 3-Pin
Basing Designation for BOTTOM VIEW	2F2

Pin 1 - No Connection



Pin 2 - Anode
Pin 3 - Cathode

DIRECTION OF LIGHT INTO END OF BULB

Maximum Ratings, Absolute Values:

ANODE-SUPPLY VOLTAGE (DC or Peak AC)	90 max.	volts
PEAK CATHODE CURRENT	5 max.	μ amp
PEAK CATHODE-CURRENT DENSITY	75 max.	μ amp/sq. in.
AVERAGE CATHODE CURRENT ^o	1.5 max.	μ amp
AMBIENT TEMPERATURE	100 max.	°C

Characteristics:

	<u>Min.</u>	<u>Av.</u>	<u>Max.</u>	
DC Dark Current at 90 Volts:	-	-	0.1	μ amp
Sensitivity:				
At 8000 angstroms	-	0.009	-	μ amp/ μ watt
Luminous: [▲]				
At 0 cps.	50	90	145	μ amp/lumen
At 5000 cps	-	77	-	μ amp/lumen
At 10000 cps.	-	67	-	μ amp/lumen
Gas Amplification Factor.	-	-	8.5	

^o Averaged over any interval of 30 seconds maximum. Average current may be doubled when anode-supply voltage is limited to 70 volts.

[▲] Measured with .06 lumen.

← Indicates a change.

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Minimum Circuit Values:

DC Load Resistance:

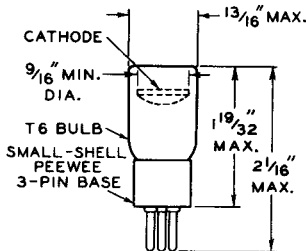
With anode-supply voltage of 70 volts or less:

For dc currents { above $1.5 \mu\text{amp}$. . . 0.1 . . . megohm
 below $1.5 \mu\text{amp}$. . . No Minimum

With anode-supply voltage of 90 volts:

For dc currents { above $1.0 \mu\text{amp}$. . . 2.5 . . . megohms
 below $1.0 \mu\text{amp}$. . . 0.1 . . . megohm

SPECTRAL-SENSITIVITY CHARACTERISTIC
 of Phototube having S-1 Response
 and
 FREQUENCY-RESPONSE CHARACTERISTICS
 of Gas Phototubes
 are shown at the front of this Section



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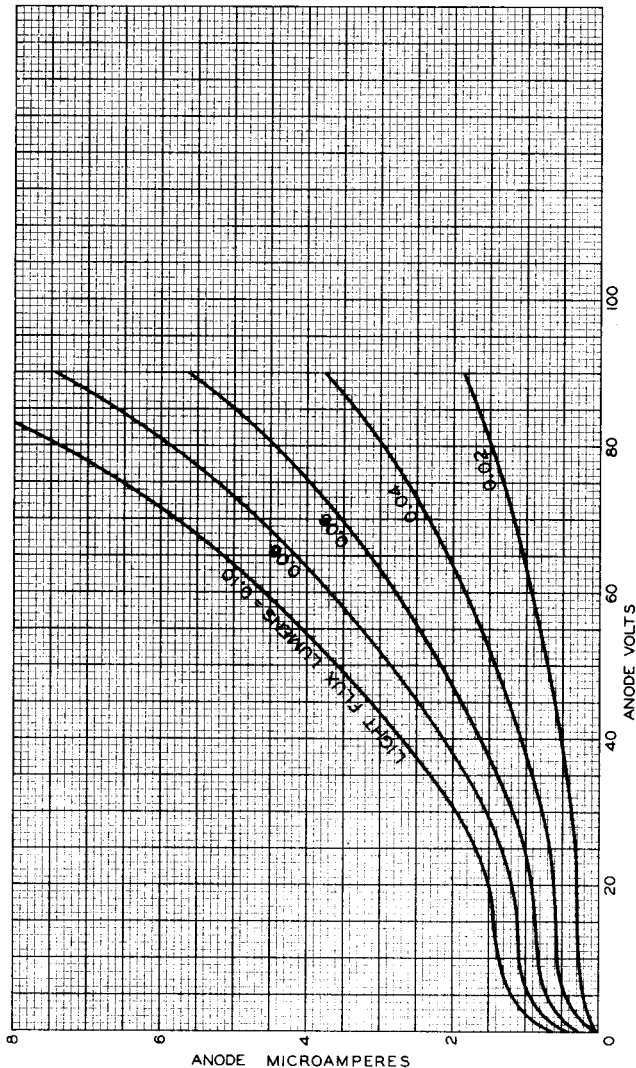
→ Indicates a change.



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AVERAGE ANODE CHARACTERISTICS



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TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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