



927 GAS PHOTOTUBE

WITH S-1 RESPONSE

DATA

General:

Spectral Response	S-1
Wavelength of Maximum Response.	8000 ± 1000 angstroms
Cathode:	
Shape	Semi-Cylindrical
Minimum Projected Length*	11/16"
Minimum Projected Width*.	7/16"
Direct Interelectrode Capacitance	2 μ mf
Maximum Overall Length.	2-13/32" ←
Maximum Seated Length	1-15/16" ←
Seated Length to Center of Cathode.	1-1/4" ± 3/32"
Maximum Diameter.	0.669" ←
Bulb.	T-5-1/4" ←
Mounting Position	Any
Base.	Small-Shell Peewee 3-Pin
Basing Designation for BOTTOM VIEW.	2F

Pin 1 - No
Connection

DIRECTION OF LIGHT



Pin 2 - Anode
Pin 3 - Cathode

Maximum Ratings, Absolute Values:

ANODE-SUPPLY VOLTAGE (DC or Peak AC)	90 max.	volts
PEAK CATHODE CURRENT.	6 max.	μ amp
PEAK CATHODE-CURRENT DENSITY.	100 max.	μ amp/sq. in.
AVERAGE CATHODE CURRENT ^o	2 max.	μ amp
AMBIENT TEMPERATURE	100 max.	^o C

Characteristics:

	<u>Min.</u>	<u>Av.</u>	<u>Max.</u>	
DC Dark Current [■]	-	-	0.1	μ amp
Sensitivity:				
At 8000 angstroms	-	0.0125	-	μ amp/ μ watt
Luminous:				
At 0 cps.	75	125	185	μ amp/lumen
At 5000 cps	-	110	-	μ amp/lumen
At 10000 cps.	-	100	-	μ amp/lumen
Gas Amplification Factor.	-	-	10	

* On plane perpendicular to indicated direction of incident light.

^o Averaged over any interval of 30 seconds maximum. Average current may be doubled when anode-supply voltage is limited to 70 volts.[■] At 25^oC and 90 volts.

← Indicates a change.

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Minimum Circuit Values:

DC Load Resistance:

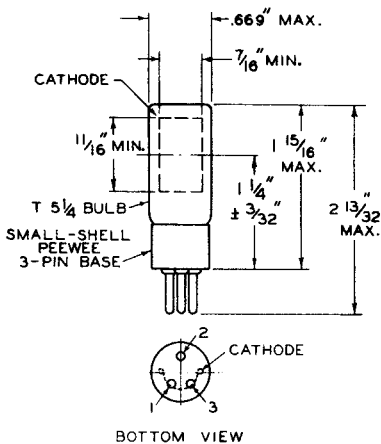
With anode-supply voltage of 70 volts or less:

For dc currents { above 2 μ amp . . . 0.1 . . . megohm
below 2 μ amp . . . No Minimum

With anode-supply voltage of 90 volts:

For dc currents { above 1.0 μ amp . . . 2.5 . . . megohms
below 1.0 μ 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



92CM-6053R4

→ Indicates a change.

SEPT. 1, 1950

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

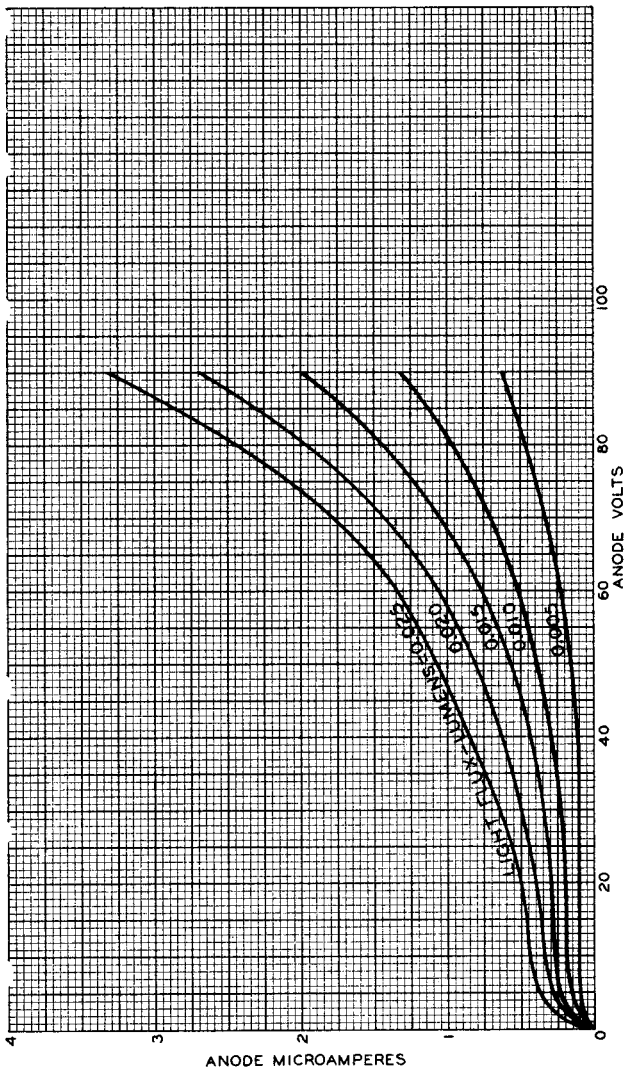
DATA



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AVERAGE ANODE CHARACTERISTICS



APRIL 5, 1950

TUBE DEPARTMENT
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92CM-6258R2