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GAS PHOTOTUBE

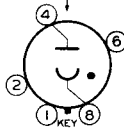
RED-INFRARED SENSITIVE

DATA

General:

Spectral Response.	S-1
Wavelength of Maximum Response	8000 Angstroms
Cathode:	
Shape.	Semi-Cylindrical
Minimum Projected Length*	13/16"
Minimum Projected Width*	5/8"
Center Length (from bottom edge of base)	1-31/32" \pm 3/32"
Direct Interelectrode Capacitance.	2.6 μ f
Mounting Position.	Any
Maximum Overall Length	3-1/16"
Maximum Seated Length.	2-1/2"
Maximum Diameter	1-5/16"
Bulb	T-9
Base	Intermediate Shell Octal 5-Pin

BOTTOM VIEW
DIRECTION OF LIGHT



Pin 1 - No Connection
 Pin 2 - No Connection
 Pin 4 - Anode

Pin 6 - No Connection
 Pin 8 - Cathode

Maximum Ratings, Absolute Values:

ANODE-SUPPLY VOLTAGE (DC or Peak AC)	90 max.	volts
CATHODE-CURRENT DENSITY.	100 max. μ amp/sq.in.	
AVERAGE CATHODE CURRENT ^o	20 max.	μ amp
AMBIENT TEMPERATURE.	100 max.	$^{\circ}$ C

Characteristics:

Maximum Dark Current at 90 volts	0.1	μ amp
Sensitivity:		
At 8000 Angstroms.	0.0135	μ amp/sq.in.
Luminous:		
At 0 Cycles.	135	μ amp/lumen
At 5000 Cycles	111	μ amp/lumen
At 10000 Cycles.	101	μ amp/lumen
Max. Gas Amplification Factor.	10	

Minimum Circuit Values:

Minimum DC Load Resistance:

With anode-supply voltage of 75 volts or less:

For dc currents {	above 3.5 μ amp.	0.1	megohm
	below 3.5 μ amp.	No Minimum	

With anode-supply voltage of 90 volts:

For dc currents {	above 2 μ amp.	2.5	megohm
	below 2 μ amp.	0.1	megohm

* on plane perpendicular to indicated direction of incident light.

^o on the basis of the use of a sensitive cathode area 1/2" in diameter.

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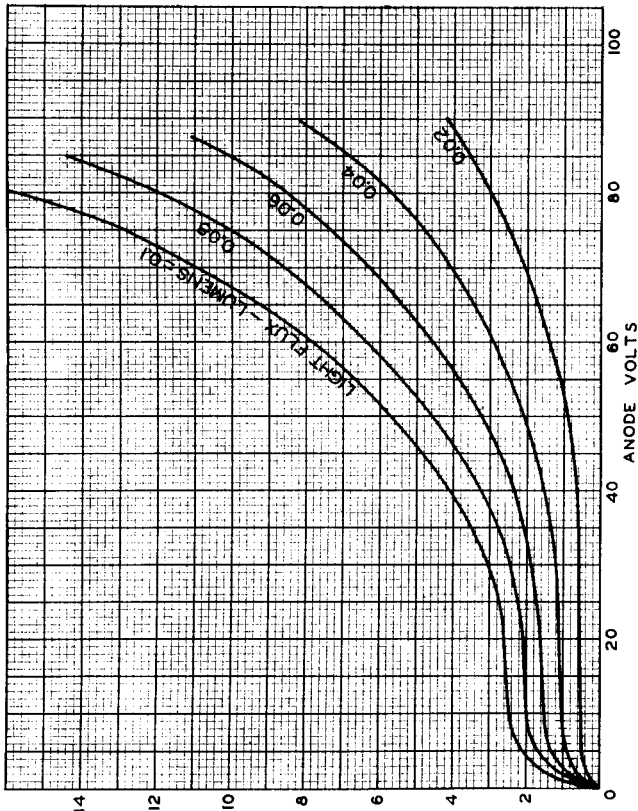
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GAS PHOTOTUBE

OUTLINE DIMENSIONS
for the 930 are the same as those for the 929

Spectral Sensitivity Characteristic of Phototube having
S-1 Response is shown at the beginning of this section

AVERAGE ANODE CHARACTERISTICS



ANODE MICROAMPERES
TUBE DEPARTMENT

AUG. 15, 1946

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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