



PHOTOTUBE

DESCRIPTION

The GL-917 is a two-electrode high-vacuum phototube for measurement and relay applications. It has high sensitivity in the red and infrared regions of the spectrum. Construction affords high resistance to leakage current between electrodes, with resultant stability of operation and permanence

of calibration. The anode of the GL-917 is connected to the top cap, while in the GL-919 the cathode is connected to the top cap. As a result of this reversal of connections, the GL-917 may be used in series with the GL-919 with resultant very small leakage current and high overall sensitivity.

TECHNICAL INFORMATION

These data are for reference only. For design information refer to specifications.

GENERAL CHARACTERISTICS

Number of electrodes 2

Electrical

Spectral response	S-1	
Luminous sensitivity at 250 volts, 0 cycles	20	microamperes per lumen
Interelectrode capacitance	2.0	micromicrofarads
Wavelength of maximum response	8000	angstroms
Sensitivity at maximum response	0.0020	microampere per microwatt



GENERAL  ELECTRIC

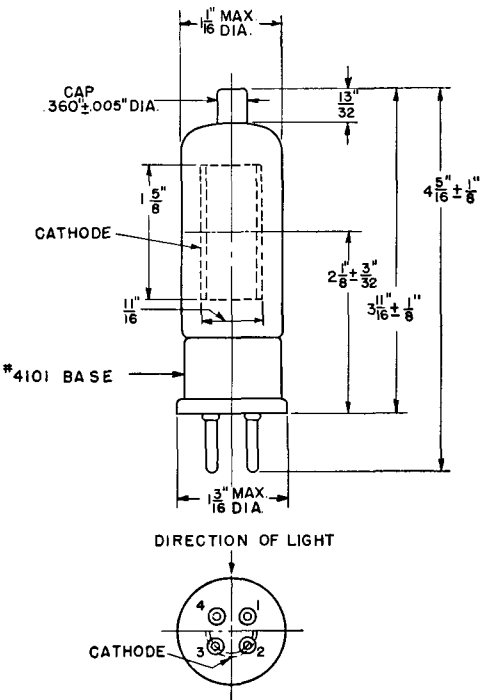
TECHNICAL INFORMATION (CONT'D)

Mechanical

Window dimensions.....	$\frac{11}{16} \times 1\frac{5}{8}$ inches
Seated height to center of useful cathode area.....	$2\frac{1}{8} \pm \frac{3}{32}$ inches
Maximum over-all height.....	$4\frac{7}{16}$ inches
Maximum seated height.....	$3\frac{13}{16}$ inches
Maximum diameter.....	$1\frac{3}{16}$ inches
Cap.....	M8-125
Base.....	M8-074
Mounting position.....	Any
Net weight, approx.....	$\frac{3}{4}$ ounce
Shipping weight, approx.....	3 pounds

MAXIMUM RATINGS

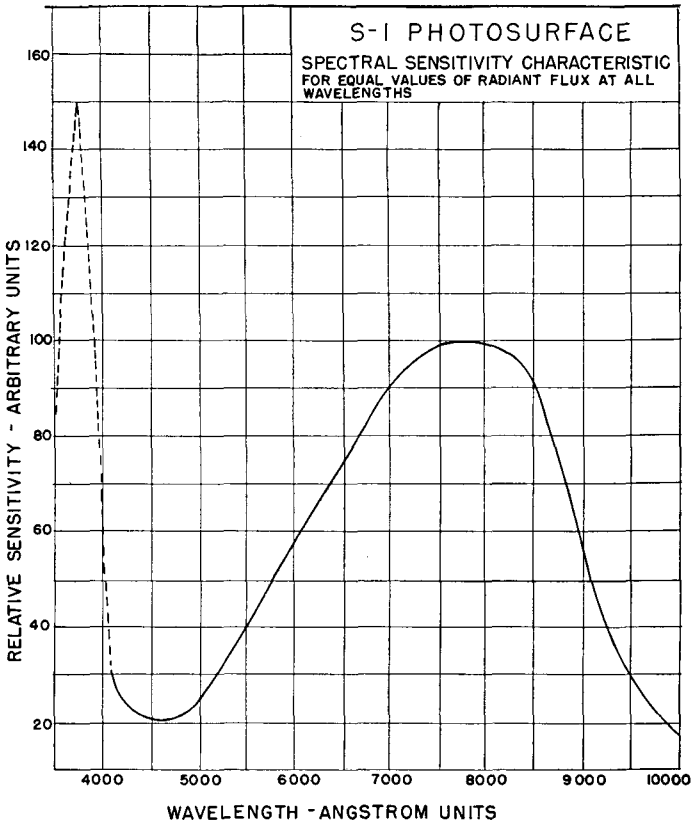
Anode voltage, d-c or peak a-c.....	500 volts
Cathode current density.....	152 microamperes per square inch
Ambient temperature.....	100 centigrade



PIN	GL-917	GL-919
1		
2		ANODE
3		
4	CATHODE	
TOP CAP	ANODE	CATHODE

OUTLINE
PHOTOTUBE GL-917

K-8277038 6-30-44



K-8639626

4-17-44