



PHOTOTUBE

DESCRIPTION

The GL-919 is a two-electrode 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 cathode of the GL-919 is connected to the top cap, while in the GL-917 the anode is connected to the top cap. As a result of this reversal of connections, the GL-919 may be used in series with the GL-917 with resultant very small leakage current and high over-all 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
Maximum dark current at 250 volts	0.1	microamperes
Wavelength of maximum response	8000	angstroms
Sensitivity at maximum response	0.0020	microamperes per microwatt



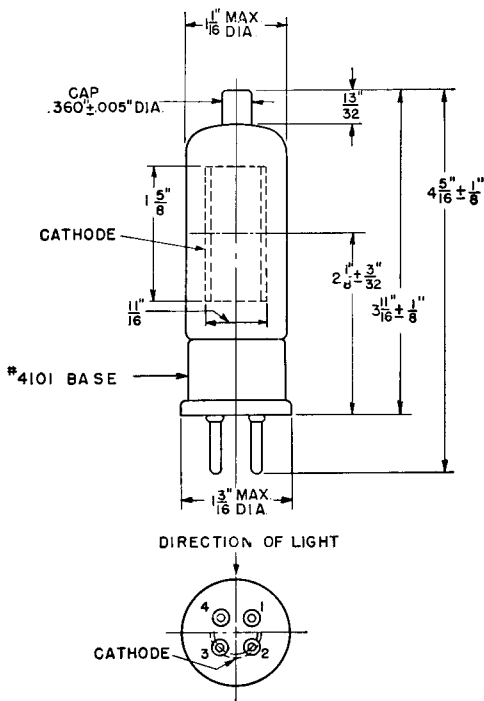
TECHNICAL INFORMATION (CONT'D)

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

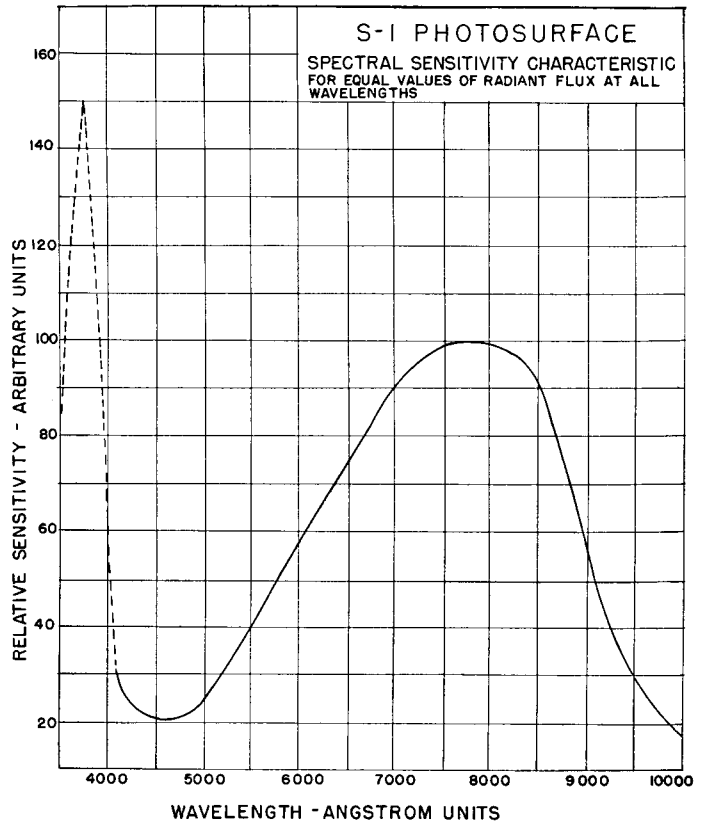
MAXIMUM RATINGS

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-919
 K-8277038 6-30-44



K-8639626

4-17-44