



# PHOTOTUBE

## DESCRIPTION

This two-electrode vacuum phototube is designed for use in photoelectric apparatus requiring reliable and accurate control. Although it will pass some current in the visible region, the PJ-22 is designed primarily for use in the red and infrared region

of the spectrum. The tube is especially useful where a high degree of stability of characteristic is required and where it is desirable to have the output directly proportional to the light flux incident on the cathode.

## TECHNICAL INFORMATION

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

### GENERAL CHARACTERISTICS

Number of electrodes . . . . .	2
<b>Electrical</b>	
Spectral response . . . . .	S-1
Luminous sensitivity at 90 volts, 0 cycles . . . . .	20 microamperes per lumen
Maximum gas amplification . . . . .	1.1
Interelectrode capacitance . . . . .	3.0 micromicrofarads
Maximum dark current at 90 volts . . . . .	0.1 microampere
Wavelength of maximum response . . . . .	7500 angstroms
Sensitivity at maximum response . . . . .	0.0020 microampere per microwatt



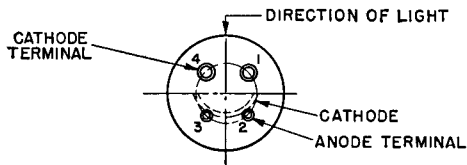
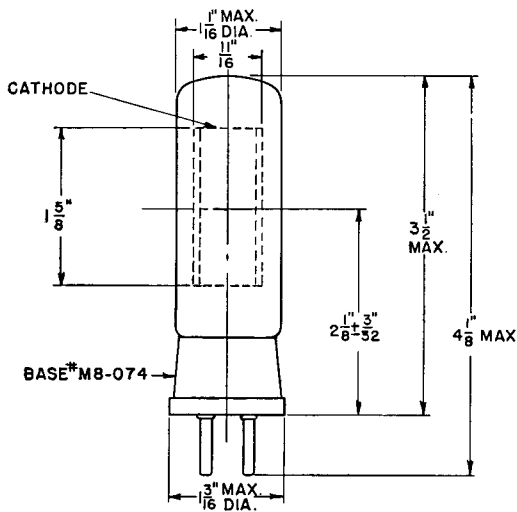
**TECHNICAL INFORMATION (CONT'D)**

**Mechanical**

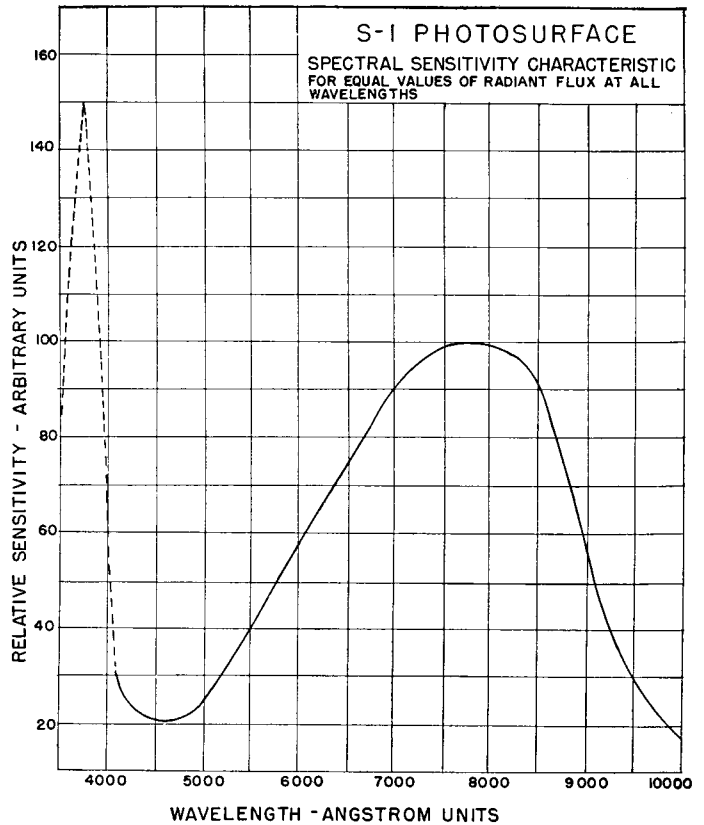
Window dimensions	$\frac{11}{16} \times 1\frac{5}{8}$ inches
Seated height to center of useful cathode area	$2\frac{1}{8} \pm \frac{3}{32}$ inches
Maximum over-all height	$4\frac{1}{8}$ inches
Maximum seated height	$3\frac{1}{2}$ inches
Maximum diameter	$1\frac{3}{16}$ inches
Base	M8-074
Mounting position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



OUTLINE  
 PJ-22 PHOTOTUBE  
 K-8639391 8-10-44



K-8638626

4-17-44