

# PHOTOTUBE

## DESCRIPTION

This gas-filled two-electrode phototube is designed for photoelectric control apparatus where a high degree of output per unit of light flux is re-

quired. While the GL-868/PJ-23 will pass some current in the visible region, it is designed primarily for use in the red and infrared region of the spectrum.

## 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 . . . . .	90 microamperes per lumen
Maximum gas amplification . . . . .	8.0
Interelectrode capacitance . . . . .	3.0 micromicrofarads
Maximum dark current at 90 volts . . . . .	0.1 microampere
Wavelength of maximum response . . . . .	7500 angstroms
Sensitivity at maximum response . . . . .	0.0105 microampere per microwatt



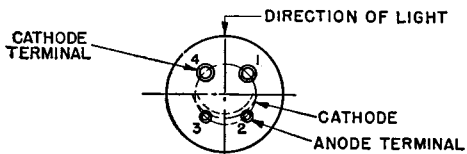
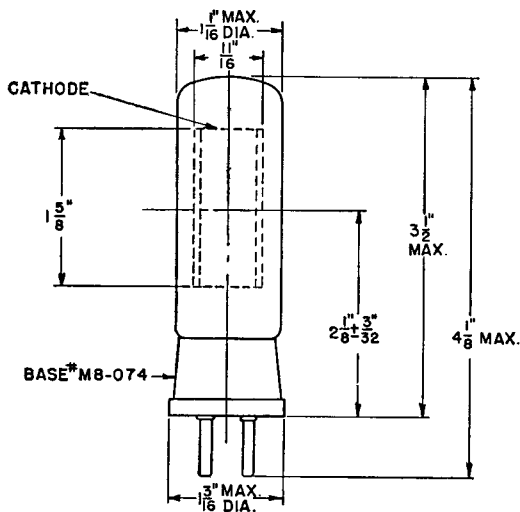
**TECHNICAL INFORMATION (CONT'D)**

**Mechanical**

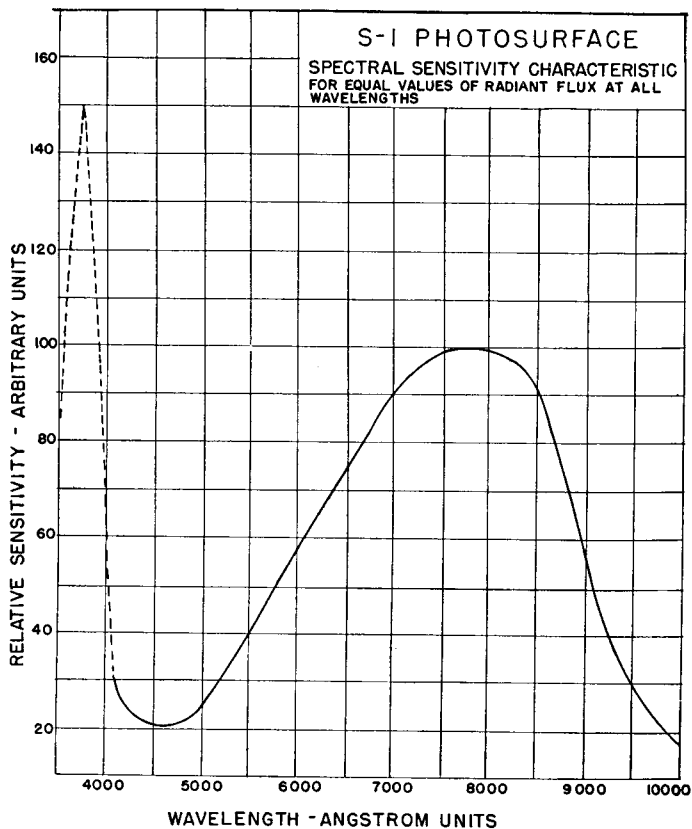
Window dimensions.....	$\frac{1}{16} \times 1\frac{5}{8}$ inches
Seated height to center of useful cathode area.....	$2\frac{1}{8} \pm \frac{3}{32}$ inches
Maximum over-all height.....	$4\frac{1}{8}$ inches
Maximum seated height.....	$3\frac{1}{2}$ inches
Maximum diameter.....	$1\frac{3}{16}$ inches
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.....	100 volts
Cathode current density.....	102 microamperes per square inch
Ambient temperature.....	100 centigrade



OUTLINE  
 GL-868/PJ-23 PHOTOTUBE  
 K-8639391 8-10-44



K-8639626

4-17-44