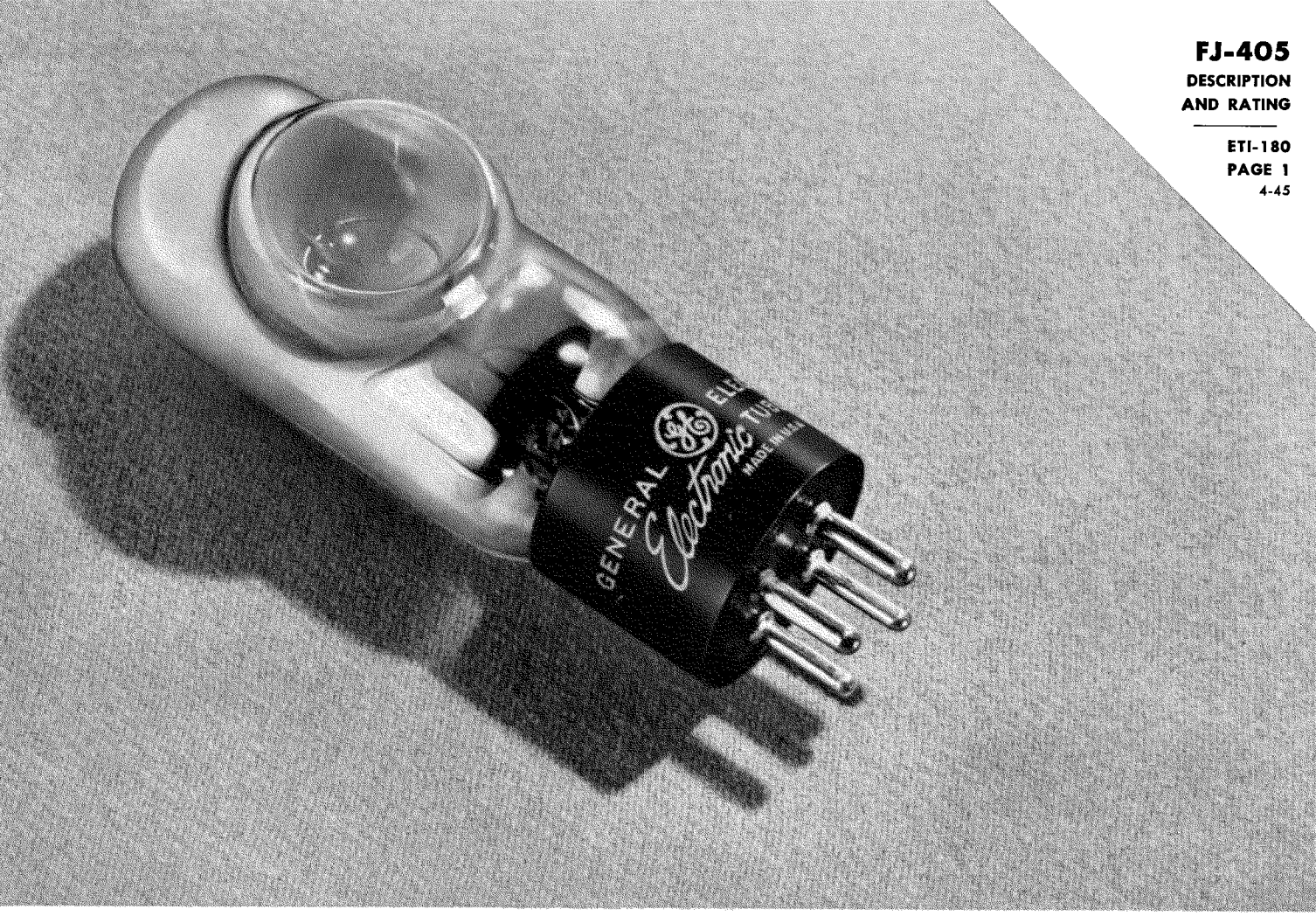


PHOTOTUBE

DESCRIPTION

The FJ-405 is a two-electrode high-vacuum phototube which is highly responsive to ultraviolet radiation between 2000 and 4000 angstroms. This phototube is a precise tool for measurement of ultraviolet radiation in the laboratory. One industrial application is to provide an accurate means of checking the radiation of ultraviolet lamps during manufacture.

TECHNICAL INFORMATION

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

GENERAL CHARACTERISTICS

Number of electrodes	2	
Electrical		
Spectral response	S-6	
*Luminous sensitivity at 67.5 volts, 0 cycles	12	microamperes per lumen
Maximum gas amplification	1.2	
Interelectrode capacitance	5.0	micromicrofarads
Maximum dark current at 90 volts	0.1	microampere
Wavelength of maximum response	2800	angstroms

* With tube 25 inches from quartz uviarc burner operating at 320 watts

Electronic TUBE

GENERAL ELECTRIC

TECHNICAL INFORMATION (CONT'D)

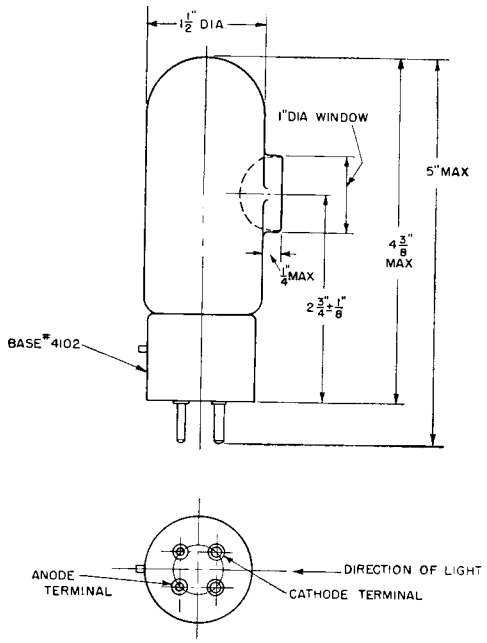
Mechanical

†Window dimensions	1	inch diameter
Seated height to center of useful cathode area	$2\frac{3}{4} \pm \frac{1}{8}$	inches
Maximum over-all height	5	inches
Maximum seated height	$4\frac{3}{8}$	inches
Maximum diameter	$1\frac{1}{2}$	inches
Base	4102	
Net weight, approx	$\frac{3}{4}$	ounce
Shipping weight, approx	3	pounds
Mounting position	Any	

† The window is very thin and should not be touched.

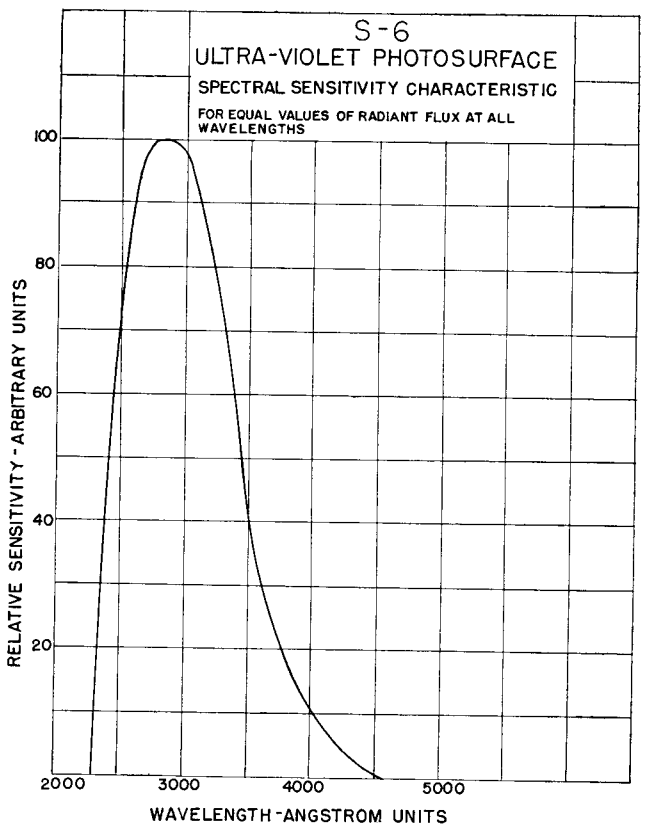
MAXIMUM RATINGS

Anode voltage, d-c or peak a-c	200	volts
Cathode current density	62	microamperes per square inch
Ambient temperature	50	centigrade



OUTLINE
FJ-405 PHOTOTUBE

K-5965349 8-18-44



K-8639627 3-23-44

Electronics Department
GENERAL ELECTRIC
Schenectady, N. Y.