

7043 VACUUM PHOTODIODE

NON-DIRECTIONAL type having S-4 response. Wavelength of maximum spectral response is 4000 ± 500 angstroms. This type makes use of a cylindrical photocathode, and has a direct interelectrode capacitance of 6 picofarads. It weighs approximately 1.4 ounces.

MAXIMUM RATINGS (Absolute-Maximum Values):

Anode-Supply Voltage (DC or Peak AC)	250 max	volts
Average Cathode-Current Density	25 max	$\mu\text{a}/\text{sq in}$
Average Cathode Current	5 max	μa
Ambient Temperature	75 max	$^{\circ}\text{C}$

TYPICAL CHARACTERISTICS:

Anode-Supply Voltage	250	volts
Radiant Sensitivity (at 4000 angstroms)	0.044	a/w

Technical Data

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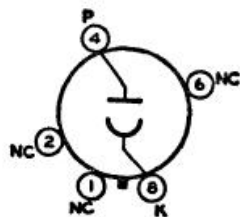
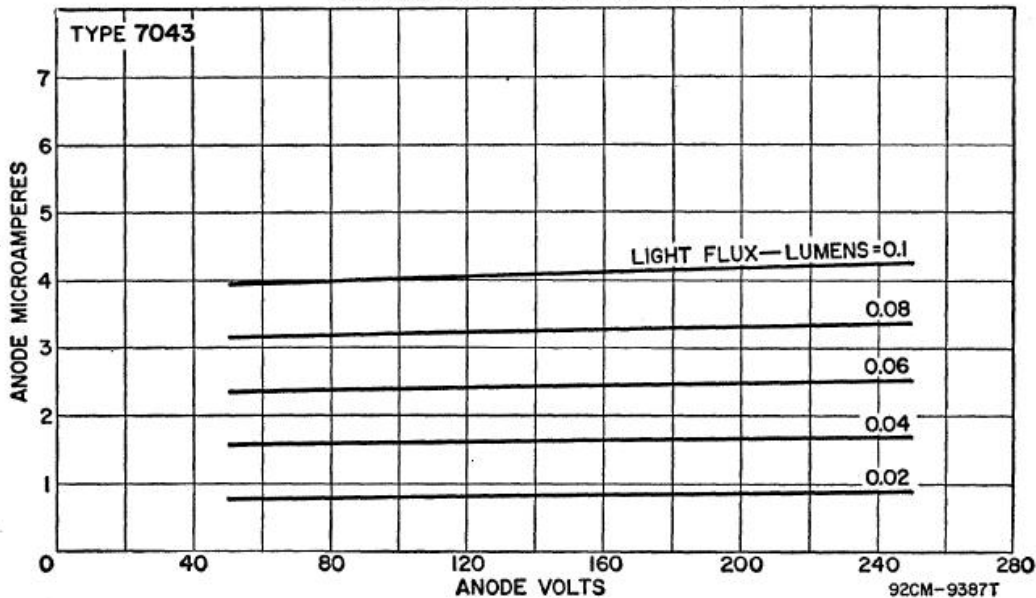
Luminous Sensitivity*:

At 250 volts	45	$\mu\text{a}/\text{lm}$
At 90 volts	41	$\mu\text{a}/\text{lm}$
Ratio of Luminous Sensivities at 250 and 90 volts	1.25 max	
Luminous Sensitivity Uniformity**	1.55 max	
Anode Dark Current (at 25°C)	0.0125 max	μa

*With light input of 0.1 lumen from a tungsten-filament lamp operated at a color temperature of 2870°K . Range of luminous sensitivity at 250 volts is 20 to $65 \mu\text{a}/\text{lm}$.

**Ratio of highest sensitivity to lowest when tube is rotated about its axis through 360 degrees, with incident light perpendicular to major axis of photocathode, and with light spot $1/2$ inch in diameter.

TYPICAL ANODE CHARACTERISTICS



NOTE: Incident radiation is perpendicular to axis of photocathode.

