7846

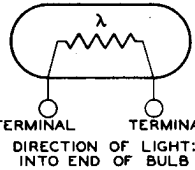
Photoconductive Cell

CADMIUM-SELENIDE, HEAD-ON TYPE

DATA

General:

Spectral Response	See *Accompanying Curve*
Wavelength of Maximum Response	7300 ± 500 angstroms
Sensitive Surface:	
Shape	Rectangular
Length	0.220" ± 0.015"
Width	0.008" ± 0.003"
Area (Average)	0.00176 sq. in.
Maximum Length (Excluding flexible leads)	0.500"
Diameter	0.29" ± 0.01"
Envelope	Glass
Seals	Hermetic
Leads, Flexible	2
Minimum length	1.5"
Diameter	0.016" ± 0.003"
Operating Position	Any
Weight (Approx.)	0.04 oz



λ indicates that the primary characteristic of the element within the envelope symbol is designed to vary under the influence of light.

Maximum Ratings, *Absolute-Maximum Values:*

VOLTAGE BETWEEN TERMINALS (DC or Peak AC)	100 max.	volts
PHOTOCURRENT	1000 max.	μa
POWER DISSIPATION	30 max.	mw
AMBIENT TEMPERATURE	50 max.	°C

Characteristics:

With dc voltage of 22.5 volts between terminals and an ambient temperature of 25° C

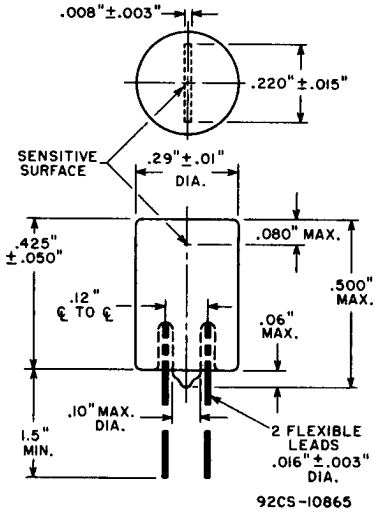
	Min	Median	Max.	
Sensitivity:				
Radiant▲ at 7300 angstroms	–	6550	–	a/w
Luminous●,★	–	41	–	a/lm
Illumination●,★	–	500	–	μa/fc
Photocurrent◆	–	–	0.05	μa

▲ For conditions where the incident power is 7.65×10^{-10} watts.

● For conditions where the light source is a tungsten-filament lamp operated at a color temperature of 2870° K.

★ Incident illumination on the sensitive surface is 0.01 footcandle.

♦ Measured 20 seconds after removal of incident-illumination level of 0.01 footcandle.



SPECTRAL-SENSITIVITY CHARACTERISTIC

For Equal Values of Radiant Flux at All Wavelengths