GENERAL DATA

Spectral Response ....................... See Curve
Wavelength of Max. Response ........... 6100 ± 400 Angstroms
Sensitive Material ...................... Cadmium Sulfide
Shape of Sensitive Area ................ Circular
Construction ........................ Flexible Leads
Outline .................................. See Drawing
Operating Position ...................... Any

ELECTRICAL DATA

RATINGS (Absolute Maximum Values)

Breakdown Voltage² ...................... 400 VAC
Dissipation ............................
   T-amb = 25°C ........................ 100 mW
   T-amb = 70°C ........................ 25 mW
Ambient Temperature Range ............ -40 to +70 °C
Illumination .......................... Note A

CHARACTERISTICS

Cell Resistance¹
   Illumination 2 FC .................. 1500 Ohms
   Color Temperature 2870°K ......... 20,000 Ohms Min.

NOTES:

1. Minute increases in relative humidity will produce change in color.
2. Measured with cell in complete darkness at a pulse rate of 120 pps, 50 μ sec. duration.
   Voltage in excess of the rated value may damage the cell. Maximum DC voltage is limited
   by maximum dissipation and minimum dark resistance rating.
3. Care should be exercised to prevent localized overheating of the sensitive surface when the
   cell is used with a loss system.
4. Measured after 60 minutes exposure to approximately 50 FC illumination (ambient room
   light).
5. Measured in complete darkness, 10 seconds after removal of 2 FC illumination.

SYLVANIA ELECTRIC PRODUCTS INC.
Electronic Components Group
ELECTRONIC TUBE DIVISION
EMPORTIUM, PA.

A Technical Publication
MAY, 1965
PAGE 1 OF 4

from JEDEC release #3477D, Oct. 4, 1965
SPECTRAL RESPONSE

WAVELENGTH IN ANGSTROMS

RELATIVE RESPONSE IN ARBITRARY UNITS
SPECTRAL CHARACTERISTIC OF HUMAN EYE, TUNGSTEN AND FLUORESCENT LAMPS

AVERAGE HUMAN EYE
INCANDESCENT LAMP

TUNGSTEN LAMP COLOR TEMPERATURE 2870°K
EYE CURVE IS ON BASIS OF EQUAL VALUES OF RADIANT FLUX AT ALL WAVELENGTHS

FLUORESCENT LAMP
SYLVAIA "WHITE"

AVERAGE CHARACTERISTICS

COLOR TEMPERATURE OF SOURCE <2870°K

CURRENT (MA)

CELL VOLTAGE
PERMISSIBLE DISSIPATION AS A FUNCTION OF AMBIENT TEMPERATURE

AREA OF PERMISSIBLE OPERATION

AMBIENT TEMPERATURE (°C)

AMBIENT TEMPERATURE (°F)

40  60  80  100  120  140  160

AVERAGE CHARACTERISTICS

COLOR TEMPERATURE OF SOURCE = 2870°K

CELL RESISTANCE IN OHMS

ILLUMINATION IN FOOTCANDLES