

DATA FOR E.I.A. REGISTRATION

MULLARD LIMITED,
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JEDEC TYPE NO. 7634

PHOTOCONDUCTIVE CELL TYPE 61SV

The 61SV is an uncooled lead sulphide photoconductive cell intended for use with a chopped or pulsating radiation, having a high infra-red sensitivity at normal room temperatures.

PHYSICAL SPECIFICATIONS

Maximum overall length	1 ⁵ / ₈ " (41mm)
Maximum seated height	1 ¹ / ₈ " (28.5mm)
Maximum diameter	7/8" (22mm)
Base	2-pin
Sensitive area	0.06 sq. in. (0.36cm ²)

ABSOLUTE MAXIMUM RATINGS

Maximum applied voltage	250 Volts
Maximum current	500 μ Amps
Maximum operating ambient temperature	60°C
Maximum storage temperature	60°C

CHARACTERISTICS

Peak spectral response	2.5 microns
Spectral response range	0.3 to 3.5 microns
Sensitivity	
a) Black body at 200°C	180 μ Vrms/ μ W (peak)
Signal to noise ratio	150
Noise equivalent power (bandwidth = 1c/s)	5.0 x 10 ⁻⁹ Watts

(Conditions:- 4.9 μ Watts of radiation falling on the cell area with 200 Volts applied to the cell and with a 1.0 M ohm load resistor. The interruption frequency of the radiation is 800c/s and the measuring amplifier has a bandwidth of 50c/s).

CHARACTERISTICS (continued)

Sensitivity

b) Tungsten light 3.0 mAmps(pk)/lm

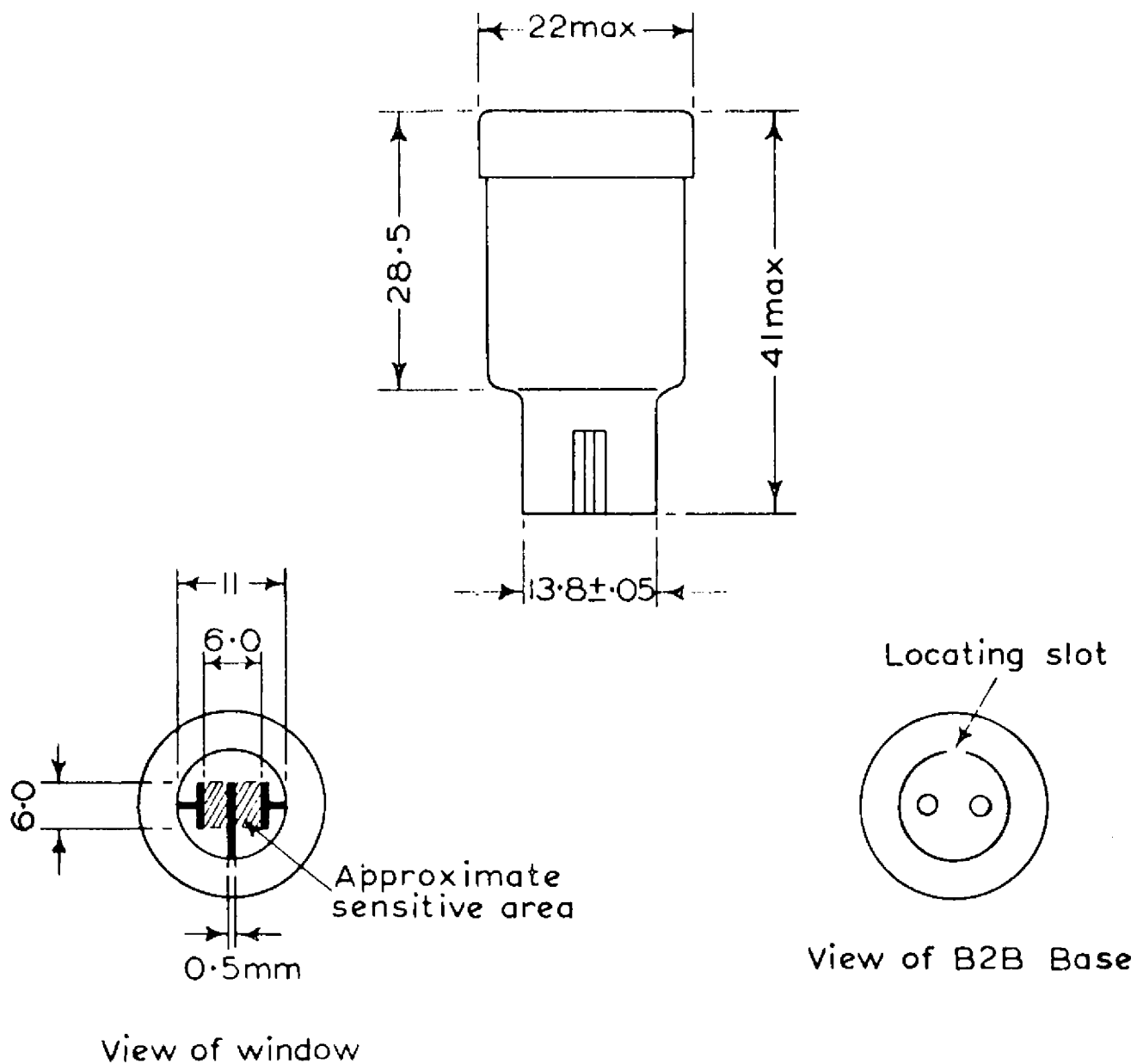
(Conditions:- Chopped light, 0.05 lumens from a lamp
at colour temperature 2700°K falling on the cell area,
and with 200 Volts applied to the cell).

Cell resistance 1.0 to 4.0 M ohms

Time constant 75 μ sec.

Noise equivalent power at
2 $\pm$ 0.05 microns 5.5 x 10⁻¹¹ Watts

Variation of dark resistance
with ambient temperature -2 % per °C



All dimensions in mm