

PE52

MAZDA
PE52
PHOTO-ELECTRIC CELL

GENERAL

The Mazda PE.52 is a vacuum Photo-Electric Cell with a Caesium-Oxygen-Silver Cathode Surface, having maximum sensitivity in the red and infra-red region of the spectrum.

RATING

Approximate Sensitivity ($\mu\text{A}/\text{lumen}$)	20 +
Max. Working Voltage (volts)	250
Max. Dark Current (μA)	0.1 =
Max. Average Cathode current (μA)	8 *
Maximum Peak Cathode Current (μA)	25
Max. Peak Cathode Current Density ($\mu\text{A}/\text{sq.cm}$)	15
Min. Insulation resistance between electrodes ($\text{M}\Omega$)	1800

NOTES

- + Measured at 0.05 lumen with 90 volts applied, and a 0.5 $\text{M}\Omega$ series resistance: Lamp at colour temperature 2700°K.
- = Measured at 90 volts, with 0.5 $\text{M}\Omega$ series resistance: zero illumination.
- * Averaged over a period not greater than 30 secs.

All Maximum Ratings are absolute values not Design Centres.

INTER-ELECTRODE CAPACITANCE

Anode to Cathode (μF)	1.9
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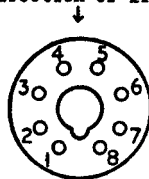
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DIMENSIONS

Maximum Overall Length (mm)	78.0
Maximum Seated Height (mm)	63.5
Light Centre from Seat (mm)	41.0 \pm 2.5
Maximum Bulb Diameter (mm)	28.5
Maximum Base Diameter (mm)	32.0
Cathode Length (mm)	22.0
Effective Cathode Width (mm)	21.5
Projected Cathode Area (Sq.cm)	4.7
Approximate Nett Weight (oz)	1
Approximate packed weight (oz)	4 $\frac{1}{2}$

MOUNTING POSITION - Unrestricted

BASE - Mazda Octal (B.O.8) Direction of light



Viewed from free end of pins

CONNECTIONS

Pin 1	Cathode	k
Pin 2	\$ Internal Connection	1.c
Pin 3	-	-
Pin 4	-	-
Pin 5	Anode	a
Pin 6	-	-
Pin 7	-	-
Pin 8	-	-

\$ In use Pin 2 should be left free