MAZDA

PE52

PHOTO-ELECTRIC CELL

PE52

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 (µA/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 (µA/sq.cm)	15
Min. Insulation resistance between electrodes (MΩ)	1800

NOTES

+ Measured at 0.05 lumen with 90 volts applied, and a 0.5 MΩ series resistance: Lamp at colour temperature 2700°K.

= Measured at 90 volts, with 0.5 MΩ 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 (µµF)	1.9

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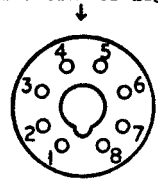
DIMENSIONS

Maximum Overall Length (mm)	78.0
Maximum Seated Height (mm)	63.5
Light Centre from Seat (mm)	41.0 ± 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)	4¾

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	i.c
Pin 3	-	-
Pin 4	-	-
Pin 5	Anode	a
Pin 6	-	-
Pin 7	-	-
Pin 8	-	-

$ In use Pin 2 should be left free