

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 infrared 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 (μΑ/sq.cm)	15
Min. Insulation resistance between electrodes (Mac)	1800

NOTES

- Measured at 0.05 lumen with 90 volts applied, and a 0.5 M. series resistance: Lamp at colour temperature 2700°K.
- Measured at 90 volts, with 0.5 M.A. 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 Widt	h (mm)	21.5
Projected Cathode Area	(Sq.cm)	4.7
Approximate Nett Weight (oz)		
Approximate packed wei	• •	- 4왕
MOUNTING POSITION - Unrestricted BASE - Mazda Octal (B.O.8) Direction of light		
300000 2000087		
	lewed from free	end of pins
CONNECTIONS	_	
Pin 1 Cathod Pin 2 \$ Intern	ie nal Connection	k
Pin 3	al commection	1.0
Pin 4	-	-
Pin 5 Anode	-	-
Pin 6	_	a _
Pin 7	•	-
Pin 8	•	-
		<u>-</u>
\$ In use Pin 2 should be left free		

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