

ELECTRONIC TUBE REFERENCE

PE50

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOEMISSIVEDETECTOR

Photoemissive phototube designed for light measurement, relay, or industrial photoelectric detection.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 PhotoemissiveDetector
No fixed ratings recorded.

Miniature gas-filled photoelectric cell with a caesium-oxygen-silver cathode, most sensitive in the red and infrared.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1960 Mazda

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 MAZDA

Section 1 · PhotoemissiveDetector

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OverallSensitivity	120 $\mu\text{A}/\text{lm}$	—
PrimarySensitivity	20 $\mu\text{A}/\text{lm}$	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
MaximumGasAmplificationFactor	10	—
MaximumWorkingVoltage	90 V	—
Maximum Average Cathode Current	2.5 μA	—
Maximum Peak Cathode Current	8 μA	—
MaximumDarkCurrent	0.1 μA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Cathode Capacitance	3 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 AEI Industrial Valves

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 AEI INDUSTRIAL VALVES

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filling	Gas	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1961 Associated Electrical Industries

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1961 ASSOCIATED ELECTRICAL INDUSTRIES

Section 1 · PhotoemissiveDetector

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum gas amplification factor	10	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum working voltage	90 V	—
Maximum average cathode current	2.5 μ A	30s
Maximum peak cathode current	8 μ A	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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