

ELECTRONIC TUBE REFERENCE

8100

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PHOTOCONDUCTIVEDETECTOR

Cadmium-sulfide photoconductive detector with high visible-light sensitivity and flexible-lead mounting. Incident light changes the cell's conductivity, providing direct optical sensing without a photoemissive vacuum photocathode.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1	PhotoconductiveDetector
<i>No fixed ratings recorded.</i>	
<i>Photoconductive cell; spectral and construction data retained as parameters.</i>	

Cadmium-sulfide photoconductive cell with high visible-light sensitivity; mounting form FlexibleLeads.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · PhotoconductiveDetector

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Wavelength of maximum response	6100 angstrom	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Photoconductor material	Cadmium sulfide	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · PhotoconductiveDetector

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Breakdown voltage2	400 V	Breakdown voltage2 400 VAC contrast and brightness control
Ambient Temperature Range	70 C	Ambient Temperature Range -40 to +70 OC

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dark Resistance.'	500000 ohm	Dark Resistance.' 500,000 Ohms Min.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
5. Measured in complete darhne5S,	10 s	5. Measured in complete darhne5S,10 Second] after remoudl of 2 FC illumination.

TUBE TINKER

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