ELECTRONIC TUBE REFERENCE

8474

Specialized - Photo Tube electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PHOTOCONDUCTIVEDETECTOR

Cadmium-sulfide photoconductive cell designed for visible-light sensing and industrial relay or control applications.

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 PhotoconductiveDetector

No fixed ratings recorded.

Promoted fields are used only where the published value maps cleanly to the locked schema; device-specific microwave, pulse, photoelectric, camera, and indicator data are preserved as parameter rows.

Cadmium-sulfide photoconductive cell for industrial light-sensing and relay/control applications.

SOURCE OPERATING CONDITIONS

1964 RMA EIA

SOURCE PDF

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

1964 RMA EIA

Section 1 · PhotoconductiveDetector

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Wavelength of maximum response	**6100 angstrom**	Nominal;±400
Cell resistance	**1500 Ohm**	Illumination=2fc;ColorTemperature=2870K
Dark resistance minimum	**150000 Ohm**	Dark

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Breakdown voltage	**150 V**	—
Dissipation at 25 degC	**50 mW**	—
Dissipation at 70 degC	**5 mW**	—
Ambient temperature minimum	**-40 degC**	—
Ambient temperature maximum	**70 degC**	—

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1965 Sylvania Electronic Tubes Vol3

SOURCE PDF

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

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Sensitive material	**Cadmium sulfide**	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Spectral response peak approximate	**6100 angstrom**	—
Cell resistance at 2 foot-candles	**1500 ohm**	—
Dark resistance minimum	**150000 ohm**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Breakdown voltage maximum	**150 V**	—
Permissible dissipation at 25 C	**50 mW**	—
Permissible dissipation at 70 C	**5 mW**	—
Ambient temperature minimum	**-40 C**	—
Ambient temperature maximum	**70 C**	—

CONDITION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Resistance measurement illumination	**2 foot-candle**	—
Dark-resistance measurement delay	**10 s**	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	**Industrial light sensing / relay control**	—