

ELECTRONIC TUBE REFERENCE

8217

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	2
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 PhotoconductiveDetector	
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	0.4 W
Nonstandard photo/electron-multiplier device; useful published numerical data is preserved in TUBE_SECTION_PARAMETER.	

Side-illuminated cadmium-sulphide photoconductive non-polarized cell for street-light controllers and other light-controlled relay applications.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · PhotoconductiveDetector

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Applied voltage maximum	300 V	—
Current maximum	20 mA	—
Power dissipation at 25 C	400 mW	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Light resistance average	7 kohm	10 foot-candles; 2870 K
Dark resistance minimum	1 Mohm	20 seconds after removing illumination
Wavelength of maximum response	5800 angstrom	Nominal

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 4 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 4 OF 4

Section 1 · PhotoconductiveDetector

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum applied voltage	300 V	DCOrPeakAC
Maximum current	20 mA	UniformIllumination
Power dissipation at 25 C	400 mW	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power dissipation at 70 C	170 mW	—
Ambient temperature minimum	-40 degC	—
Ambient temperature maximum	70 degC	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Wavelength of maximum response	5800 angstrom	Approximate
Light resistance minimum	5 kohm	10FootCandles;2870K
Light resistance average	7 kohm	10FootCandles;2870K
Light resistance maximum	10 kohm	10FootCandles;2870K
Dark resistance minimum	1 megohm	20SecondsAfterDark

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Sensitive material	Cadmium sulphide	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Street light controller	—
Application	Light-controlled relay	—

TUBE TINKER

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

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