



ELECTRONIC TUBE REFERENCE

5517

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Heaterless gas-filled cold-cathode half-wave rectifier with instant operation for photoflash and high-voltage low-current supplies. It provides useful rectification without a heater circuit.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	2800 V
NOMINAL OUTPUT CURRENT	12 mA
PEAK FORWARD CURRENT	100 mA
FORWARD VOLTAGE DROP	100 V
Gas-filled cold-cathode half-wave rectifier; average tube drop is 100 V.	

Gas-filled cold-cathode half-wave rectifier with instant operation for photoflash and high-voltage low-current supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse voltage	2800 V	Published rating
Average or DC output current	12 mA	Published rating
Peak forward current	100 mA	Published rating

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	100 V	Published typical value

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 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum starting voltage RMS	400 V	StarterElectrodeVia40Megohm
Maximum surge anode current	3.2 A	—
Minimum source impedance	5000 ohm	—
DC output voltage	1000 V	HalfWave;10mAOutput

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube drop	100 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum starting voltage	400 V	StarterElectrodeVia10Megohm
Maximum average anode current	12 mA	HalfWaveRectifier
Maximum peak anode current	100 mA	HalfWaveRectifier
Maximum surge anode current	300 mA	HalfWaveRectifier
Minimum source impedance	5000 ohm	HalfWaveRectifier
AC input voltage RMS	1000 V	HalfWaveRectifier
DC output voltage	1000 V	HalfWaveRectifier
DC output current	10 mA	HalfWaveRectifier
AC input voltage RMS	1200 V	VoltageDoubler;FullWave
DC output voltage	2550 V	VoltageDoubler;FullWave
DC output current	10 mA	VoltageDoubler;FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube drop	100 V	—

TUBE TINKER

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

