



ELECTRONIC TUBE REFERENCE

50Y6G

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

High-vacuum dual rectifier and voltage-doubler tube for AC/DC receiver supplies. Two identical rectifier sections provide flexible half-wave, full-wave, or doubler operation from a 50 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	50 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	700 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	450 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	350 V
Representative row for two separate identical rectifier sections; source header explicitly gives 50Y6GT/G co-designation.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	700 V
NOMINAL OUTPUT CURRENT	75 mA
PEAK FORWARD CURRENT	450 mA
FORWARD VOLTAGE DROP	22 V
MAXIMUM HEATER-CATHODE VOLTAGE	350 V
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

High-vacuum rectifier-doubler with two identical rectifier sections.



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 · Rectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service	Rectifier / voltage doubler	—



SOURCE OPERATING CONDITIONS

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
Heater voltage	50 V	—
Heater current	150 mA	—
Maximum AC plate voltage RMS	235 V	HalfWave
DC output current	75 mA	VoltageDoubler
Minimum plate-supply impedance	15 ohm	FullWave

1961 TUNG SOL

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	50 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	150 mA	—
Maximum AC plate voltage RMS	235 V	HalfWave
DC output current	75 mA	VoltageDoubler
Minimum plate-supply impedance	15 ohm	FullWave

TUBE TINKER

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

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