

ELECTRONIC TUBE REFERENCE

6ZY5G

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Heater-type high-vacuum full-wave rectifier for low-current-drain receivers. Its low heater demand and modest output capability suit economical receiving-equipment power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6S	BASE PINS	6
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

6S - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – H	–	H – Heater	CONNECTED
PIN3 – 2P	A	P – Plate (Anode)	CONNECTED
PIN5 – 1P	A	P – Plate (Anode)	CONNECTED
PIN7 – H	–	H – Heater	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	40 mA
PEAK FORWARD CURRENT	120 mA
FORWARD VOLTAGE DROP	18 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Published handbook ratings and representative operating characteristics reviewed.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	40 mA
PEAK FORWARD CURRENT	120 mA
FORWARD VOLTAGE DROP	18 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Heater-type high-vacuum full-wave rectifier for low-current-drain receivers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS AC voltage per plate maximum	350 V	FullWave
Peak inverse voltage maximum	1000 V	FullWave
DC output current maximum	35 mA	FullWave
Peak current per plate maximum	150 mA	FullWave
Maximum heater-cathode DC voltage	400 V	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average tube voltage drop	16.5 V	At35mAOutputCurrentPerPlate

1937 RAYTHEON RADIO RECEIVING TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS AC voltage per plate maximum	350 V	FullWave
Peak inverse voltage maximum	1000 V	FullWave
DC output current maximum	35 mA	FullWave
Peak current per plate maximum	150 mA	FullWave
Maximum heater-cathode DC voltage	400 V	FullWave

Characteristic		
Parameter	Published Value	Condition / Note
Average tube voltage drop	16.5 V	At35mAOutputCurrentPerPlate


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1948 Brimar Radio Valve Manual

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

1948 BRIMAR RADIO VALVE MANUAL

Section 1 · Rectifier

Other		
Parameter	Published Value	Condition / Note
RMS Input per Anode	325 V	FullWaveRectifier

1948 BRIMAR RADIO VALVE MANUAL

Section 2 · Rectifier

Other		
Parameter	Published Value	Condition / Note
RMS Input per Anode	325 V	FullWaveRectifier


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Rectifier

Characteristic		
Parameter	Published Value	Condition / Note
Heater Voltage	6.3 V	—
Heater Current	500 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACVoltagePerPlate	350 V	—
DC Output Current	35 mA	ClassA

1950 SYLVANIA

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	500 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACVoltagePerPlate	350 V	—
DC Output Current	35 mA	ClassA



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	40 mA	RectifierService
Peak inverse voltage	1250 V	RectifierService

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS supply voltage per plate	350 V	RectifierService
Peak current per plate	120 mA	RectifierService

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published heater rating
Heater current	300 mA	Published heater rating

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	40 mA	RectifierService
Peak inverse voltage	1250 V	RectifierService
RMS supply voltage per plate	350 V	RectifierService
Peak current per plate	120 mA	RectifierService


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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	6.3 V	Nominal
Heater current	300 mA	Nominal
AC plate voltage per plate RMS	325 V	CapacitorInputFilter
DC output current	40 mA	CapacitorInputFilter
AC plate voltage per plate RMS	450 V	ChokeInputFilter
DC output current	40 mA	ChokeInputFilter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input choke	13.5 H	ChokeInputFilter
Total effective plate supply impedance per plate	225 ohm	CapacitorInputFilter

1961 TUNG SOL

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal

TUBE TINKER

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