

ELECTRONIC TUBE REFERENCE

6W5G

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
RECTIFIER-RECTIFIER

Indirectly heated full-wave high-vacuum rectifier for AC power supplies. Rated for approximately 1.25 kV peak inverse voltage and 100 mA DC output from a 6.3 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6S	BASE PINS	8
NOMINAL HEATER	6.3 V / 900 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	90 mA
PEAK FORWARD CURRENT	270 mA
FORWARD VOLTAGE DROP	24 V
MAXIMUM HEATER-CATHODE VOLTAGE	500 V
<i>Source-defined physical/function section.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	90 mA
PEAK FORWARD CURRENT	270 mA
FORWARD VOLTAGE DROP	24 V
MAXIMUM HEATER-CATHODE VOLTAGE	500 V

Full-wave high-vacuum rectifier with a 6.3 V, 0.9 A heater.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Ken Rad

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

1937 KEN RAD

Section 1 · Rectifier

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	350 V	AC Plate Voltage (RMS per plate) 350 Volts Max.
Load Current	100 mA	Load Current 100 Milliamperes Max.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Rectifier

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Section1
Heater current	900 mA	Section1
RMS AC voltage per plate maximum	350 V	FullWave
DC output current maximum	100 mA	FullWave
Maximum heater-cathode DC voltage	500 V	FullWave



195X General Electric Essential Characteristics

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195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	1250 V	—
Nominal DC output current	90 mA	—
Maximum peak forward current	270 mA	—
Maximum RMS supply voltage	325 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward voltage drop	24 V	—
Forward-voltage-drop test current	90 mA	—

TUBE TINKER

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