



ELECTRONIC TUBE REFERENCE

5AW4

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

High-current directly heated full-wave vacuum rectifier designed for substantial DC power supplies. Its 5 V filament supports approximately 250 mA nominal rectified output and high peak inverse-voltage operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5T	BASE PINS	8
NOMINAL HEATER	5 V / 3 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

5T - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – F	–	F – Filament	CONNECTED
PIN4 – P1	A	P – Plate (Anode)	CONNECTED
PIN6 – P2	A	P – Plate (Anode)	CONNECTED
PIN8 – F	–	F – Filament	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1550 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	46 V
<i>Published full-wave rectifier ratings promoted from the printed chart; supply-voltage and voltage-drop test conditions retained as parameters.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1550 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	46 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

High-current full-wave directly heated vacuum rectifier.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	5 V	Published condensed-characteristics chart
Filament/heater current	4 A	Published condensed-characteristics chart
DC output current maximum	250 mA	FullWave
Peak inverse voltage maximum	1550 V	FullWave
RMS supply voltage per plate maximum	450 V	FullWave
Peak current per plate maximum	750 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	46 V	At 250 mA DC



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage maximum	1550 V	—
AC plate supply voltage per plate	350 V RMS	CapacitorInputFilter
Input capacitor	40 uF	CapacitorInputFilter
DC output current	350 mA	CapacitorInputFilter
DC output voltage at filter input	422 V	CapacitorInputFilter
AC plate supply voltage per plate	500 V RMS	ChokeInputFilter
Input choke	10 H	ChokeInputFilter
DC output current	350 mA	ChokeInputFilter
DC output voltage at filter input	445 V	ChokeInputFilter

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5 V	—
Heater current	3 A	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Full-wave power-supply rectifier	—

1965 WESTINGHOUSE DATA BOOK

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage maximum	1550 V	—
AC plate supply voltage per plate	350 V RMS	CapacitorInputFilter
Input capacitor	40 uF	CapacitorInputFilter
DC output current	350 mA	CapacitorInputFilter

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output voltage at filter input	422 V	CapacitorInputFilter
AC plate supply voltage per plate	500 V RMS	ChokeInputFilter

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5 V	—
Heater current	3 A	—