



ELECTRONIC TUBE REFERENCE

5V4GA

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Glass-octal indirectly heated full-wave rectifier for power supplies with relatively high DC requirements. Its five-volt heater-cathode construction combines moderate current capability with comparatively low forward drop.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5L	BASE PINS	8
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

5L - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN2 – H	–	H – Heater	CONNECTED
PIN4 – P1	A	P – Plate (Anode)	CONNECTED
PIN6 – P2	A	P – Plate (Anode)	CONNECTED
PIN8 – K	A	K – Cathode	CONNECTED
PIN8 – H	–	H – Heater	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	175 mA
PEAK FORWARD CURRENT	525 mA
FORWARD VOLTAGE DROP	25 V
<i>Representative row for two rectifier diode sections sharing the published cathode/filament system.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	175 mA
PEAK FORWARD CURRENT	525 mA
FORWARD VOLTAGE DROP	25 V
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Glass octal type used in full-wave power supplies having high dc requirements. Outlines section, 19B; requires octal socket. The heater is designed to operate from the ac line through a step-down transformer. The voltage at the heater terminals should be 5 volts under operating conditions at an average line voltage of 117 volts. It is especially important that these tubes, like other power-handling tubes, be adequately ventilated.



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	2 A	Published condensed-characteristics chart
DC output current maximum	175 mA	FullWave
Peak inverse voltage maximum	1400 V	FullWave
RMS supply voltage per plate maximum	375 V	FullWave
Peak current per plate maximum	525 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	25 V	At 175 mA DC



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	5 V	—
HeaterOrFilamentCurrentNominal	2 A	—
ForChokeLinputFilter	500 V	Published datasheet table
SteadyStatePeakPlateCurrentPerPlate	525 mA	Published datasheet table
DC Output Current	175 mA	Published datasheet table

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACPlateSupplyVoltagePerPlateRMSValue1	375 V	Published datasheet table
ACPlateSupplyVoltagePerPlateRMSValue2	500 V	Published datasheet table
Filter Input Capacitor	10	Published datasheet table
Filter Input Choke	4 H	Published datasheet table
DCOutputCurrentValue1	175 mA	Published datasheet table
DCOutputCurrentValue2	175 mA	Published datasheet table
DCOutputVoltageAtFilterInputValue1	410	Published datasheet table
DCOutputVoltageAtFilterInputValue2	410	Published datasheet table



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

SOURCE PDF

1975 RCA RC30

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

1975 RCA RC30

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
operating conditions at an average line voltage of	117 volts	Published value from supplied target entry
Peak Inverse Plate Voltage	1400	Published value from supplied target entry
Peak Plate Current (Per Plate)	626 mA	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average Output Current	176 mA	Published value from supplied target entry
AC Plate-to-Plate Supply Voltage (raw)	1000 volts	Published value from supplied target entry
At output current of	410 mA	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
With capacitor-input filter	375 volts	Published value from supplied target entry
Filter-Input Capacitor*	10	Published value from supplied target entry

TUBE TINKER

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