

5Y3GT

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Glass-octal directly heated full-wave rectifier widely used in radio and television power supplies with moderate DC requirements. Its five-volt filament provides conventional full-wave B-plus rectification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5T	BASE PINS	8
NOMINAL HEATER	5 V / 2 A	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	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	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	440 mA
FORWARD VOLTAGE DROP	50 V
Representative row for two rectifier diode sections sharing the published cathode/filament system.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	440 mA
FORWARD VOLTAGE DROP	50 V
Second physical rectifier section; electrical properties populated from corresponding identical section.	

Glass octal type used in power supplies of radio and television equipment having moderate dc requirements. Outlines section, 13E; requires octal socket. Vertical mounting is preferred, but horizontal mounting is permissible if pins 2 and 8 are in horizontal plane. It is especially important that this tube, like other power-handling tubes, be adequately ventilated. For discussion of Rating Chart and Operating Characteristics, refer to Interpretation of Tube Data.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RMS Input per Anode	350 V	CapacitorInputFilter
Reservoir Capacitance	32 uF	CapacitorInputFilter
RMS Input per Anode	500 V	ChokeInputFilter
Input Choke Inductance	10 H	ChokeInputFilter
Rectified Current	125 mA	—



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	125 mA	FullWave
Peak inverse voltage maximum	1400 V	FullWave
RMS supply voltage per plate maximum	350 V	FullWave
Peak current per plate maximum	400 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	50 V	At 125 mA DC



1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	5 V	—
HeaterOrFilamentCurrent	2 A	—



SOURCE DATA APPENDIX

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	5 V	—
HeaterOrFilamentCurrent	2 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageMaximum	1400 V	—
SteadyStatePeakPlateCurrentMaximum	440 mA	—
TransientPeakPlateCurrentMaximum	2.5 A	—
DC Output Current	125 mA	FullWaveRectifier
RMSInputVoltagePerPlate	350 V	CapacitorInputFilter
Reservoir Capacitance	20 uF	CapacitorInputFilter
RMSInputVoltagePerPlate	500 V	ChokeInputFilter
MinimumChokeInductance	10 H	ChokeInputFilter



SOURCE DATA APPENDIX

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	
Heater0rFilamentVoltageNominal	5 V	—	
Heater0rFilamentCurrentNominal	2 A	—	

CHARACTERISTIC			
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE	
ACPlateSupplyVoltagePerPlateRMS350500VolisValue1	350	Published datasheet table	
ACPlateSupplyVoltagePerPlateRMS350500VolisValue2	500	Published datasheet table	
Filter Input Capacitor	20	Published datasheet table	
Filter Input Choke	10 H	Published datasheet table	
DC Output Current	125 mA	Published datasheet table	
DC Output Voltage At Filter Input	380 V	Published datasheet table	
1TheMaximumRatingsForACPlateSupplyVoltageAndDCOutputCurrentAreInterrelatedAndAreAlsoDependentOn	1	Published datasheet table	
3NCHOKEINPUT	3	Published datasheet table	
0CAPACITORORCHOKEINPUT0	0	Published datasheet table	
ForCAPacIToR1WPUTFILTER1055Value1	1	Published datasheet table	
ForCAPacIToR1WPUTFILTER1055Value2	10	Published datasheet table	
ForCAPacIToR1WPUTFILTER1055Value3	-55	Published datasheet table	
4WHEREEDCOUTPUTVOLTAGEIqR	4	Published datasheet table	
PLATECURRENTOF25AMPERES	2.5 A	Published datasheet table	



1975 RCA RC30

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

1975 RCA RC30
Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plat* Voltage	1400 volts	Published value from supplied target entry
Peak Plate Current (Per Plate)	4 mA	Published value from supplied target entry
Hot-Switching Transient Plate Current (Per Plate) S	5 amperes	Published value from supplied target entry
AC Piate-to-Plate Supply Voltage (rms)	7	Published value from supplied target entry
Half-load to full-load current	44	Published value from supplied target entry
AC Plate-to-Plate Supply Voltage (rms)	1000	Published value from supplied target entry
Half-load to full-load current	15	Published value from supplied target entry
provided the load currents are not less than	35 mA	Published value from supplied target entry
plate supply voltages of	1000 volts	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filter Input Capacitor* X	1	Published value from supplied target entry



SOURCE DATA APPENDIX

2026 Sovtek

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

2026 SOVTEK
Section 1 · Rectifier

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectificationType	FullWave text	Center-tapped midpoint circuit

TUBE TINKER

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

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