

ELECTRONIC TUBE REFERENCE

5V3

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Filamentary full-wave high-vacuum rectifier intended for color-television and other high-current power supplies. Its 5 V filament supports approximately 350 mA DC output.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	5 V / 3.8 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	2400 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	1.2 A
Representative row for two rectifier diode sections sharing the published cathode/filament system.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	2400 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	1.2 A
Second physical rectifier section; electrical properties populated from corresponding identical section.	

5V3 is a Rectifier device. Filamentary full-wave high-vacuum rectifier for color-television or other high-current power supplies.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Maximum AC Plate Voltage RMS	500 V	EachPlate



SOURCE OPERATING CONDITIONS

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1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse plate voltage	2400 V	—
Maximum AC plate supply voltage per plate	500 V RMS	—
Maximum steady-state peak plate current per plate	1.2 A	—
Maximum transient peak plate current per plate	5.5 A	—
AC plate supply voltage per plate	300 V RMS	CapacitorInputFilter
Filter input capacitance	40 uF	CapacitorInputFilter
DC output current	350 mA	CapacitorInputFilter; 300V AC
DC output voltage	285 V	CapacitorInputFilter; 300V AC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate supply voltage per plate	425 V RMS	CapacitorInputFilter
DC output current	350 mA	CapacitorInputFilter; 425V AC
DC output voltage	430 V	CapacitorInputFilter; 425V AC
Filter input choke	10 H	ChokeInputFilter
DC output current	350 mA	ChokeInputFilter
DC output voltage	385 V	ChokeInputFilter


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	5 V	—
HeaterOrFilamentCurrentNominal	3.8 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACPlateSupplyVoltagePerPlateRMSValue1	300 V	Published datasheet table
ACPlateSupplyVoltagePerPlateRMSValue2	425 V	Published datasheet table
FilterInputCapacitorValue1	40	Published datasheet table
FilterInputCapacitorValue2	40	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TotalPlateSupplyResistancePerPlateValue1	24 0hm	Published datasheet table
TotalPlateSupplyResistancePerPlateValue2	56 0hm	Published datasheet table
DCOutputCurrentValue1	380 mA	Published datasheet table
DCOutputCurrentValue2	350 mA	Published datasheet table
DCOutputVoltageAtFilterInputValue1	285 V	Published datasheet table
DCOutputVoltageAtFilterInputValue2	430 V	Published datasheet table
ACPlateSupplyVoltagePerPlateRMS	500 V	Published datasheet table
Filter Input Choke	10 H	Published datasheet table
DCOutputCurrent0tttEtttItttItttEtttEieeaaEtEtEE350Milliamperes	350 mA	Published datasheet table
DC Output Voltage At Filter Input	385	Published datasheet table
80PLATECURRENTOF60AMPERESMAXINUMValue1	80 A	Published datasheet table
80PLATECURRENTOF60AMPERESMAXINUMValue2	6 A	Published datasheet table
60RsPLATESUPPLYRESISTANCEPERPLATE	60	Published datasheet table
40RESISTANCEPERPLATE4Value1	40	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
40RESISTANCEPERPLATE4Value2	4	Published datasheet table

1968 GENERAL ELECTRIC CO

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltageNominal	5 V	—
HeaterOrFilamentCurrentNominal	3.8 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACPlateSupplyVoltagePerPlateRMSValue1	300 V	Published datasheet table
ACPlateSupplyVoltagePerPlateRMSValue2	425 V	Published datasheet table
FilterInputCapacitorValue1	40	Published datasheet table
FilterInputCapacitorValue2	40	Published datasheet table
TotalPlateSupplyResistancePerPlateValue1	24 Ohm	Published datasheet table
TotalPlateSupplyResistancePerPlateValue2	56 Ohm	Published datasheet table
DCOutputCurrentValue1	380 mA	Published datasheet table
DCOutputCurrentValue2	350 mA	Published datasheet table
DCOutputVoltageAtFilterInputValue1	285 V	Published datasheet table

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DCOutputVoltageAtFilterInputValue2	430 V	Published datasheet table
ACPlateSupplyVoltagePerPlateRMS	500 V	Published datasheet table
Filter Input Choke	10 H	Published datasheet table
DCOutputCurrent0tttEtttItttItttEtttEieeaaEtEtEE350Milliamperes	350 mA	Published datasheet table

TUBE TINKER

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