

ELECTRONIC TUBE REFERENCE

5AX4GT

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated double-diode full-wave high-vacuum rectifier for capacitor-input and choke-input filter supplies. It provides approximately 175 mA nominal output with substantial inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5T	BASE PINS	5
NOMINAL HEATER	5 V / 2.5 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	175 mA
PEAK FORWARD CURRENT	525 mA
FORWARD VOLTAGE DROP	65 V
<i>Representative row for two identical full-wave rectifier plates.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1400 V
NOMINAL OUTPUT CURRENT	175 mA
PEAK FORWARD CURRENT	525 mA
FORWARD VOLTAGE DROP	65 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

Double-diode full-wave rectifier with a 5.0 V, 2.5 A directly heated filament; rated for capacitor-input and choke-input filter service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	5 V	Nominal
Heater Current	2.5 A	Nominal
Plate Supply Voltage	350 V	CapacitorInputFilter
Plate Supply Voltage	500 V	ChokeInputFilter
DC Output Voltage	330 V	CapacitorInputFilter
DC Output Voltage	375 V	ChokeInputFilter

1950 SYLVANIA

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	5 V	Nominal
Heater Current	2.5 A	Nominal
Plate Supply Voltage	350 V	CapacitorInputFilter
Plate Supply Voltage	500 V	ChokeInputFilter
DC Output Voltage	330 V	CapacitorInputFilter
DC Output Voltage	375 V	ChokeInputFilter



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	2.5 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	350 V	FullWave
Peak current per plate maximum	525 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	65 V	At 175 mA DC

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament/heater voltage	5 V	Published condensed-characteristics chart
Filament/heater current	2.5 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	350 V	FullWave
Peak current per plate maximum	525 mA	FullWave

Characteristic		
Parameter	Published Value	Condition / Note
Tube voltage drop	65 V	At 175 mA DC



SOURCE DATA APPENDIX

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 plate supply voltage	350 V	CapacitorInputFilter
Maximum plate supply voltage	500 V	ChokeInputFilter

1961 TUNG SOL

Section 2 · Rectifier

Other		
Parameter	Published Value	Condition / Note
Maximum plate supply voltage	350 V	CapacitorInputFilter
Maximum plate supply voltage	350 V	CapacitorInputFilter
Maximum plate supply voltage	500 V	ChokeInputFilter