



ELECTRONIC TUBE REFERENCE

6AX5GT

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Glass-octal full-wave vacuum rectifier for radio-equipment power supplies. Rated for approximately 1.25 kV peak inverse voltage, 125 mA DC output, and 375 mA peak current from a 6.3 V heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	G6S	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 mA
FORWARD VOLTAGE DROP	50 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
Representative row for two identical full-wave rectifier plates; typical filter data retained as parameters.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	375 mA
FORWARD VOLTAGE DROP	50 V
MAXIMUM HEATER-CATHODE VOLTAGE	450 V
Second physical section; electrical properties populated from identical section.	

Glass-octal full-wave vacuum rectifier intended for radio-equipment power supplies with moderate DC requirements; typical capacitor-input and choke-input filter operation is specified.

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
RMS supply voltage per plate	350 V	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward-voltage-drop test current	125 mA	FullWave

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
Heater voltage	6.3 V	—
Heater current	1.2 A	—
AC plate voltage each plate	350 V	CapacitorInputFilter
Filter input condenser	10 uF	CapacitorInputFilter
DC output voltage at filter input	350 V	CapacitorInputFilter; FullLoad

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
Peak inverse voltage maximum	1250 V	EachPlate
Peak plate current maximum	375 mA	EachPlate
Hot-switching transient plate current maximum	2.8 A	EachPlate;0.2Second
AC plate voltage each plate	350 V RMS	FullWave;CapacitorInputFilter
Filter input capacitor	10 µF	CapacitorInputFilter
Effective plate supply impedance each plate	50 Ω	CapacitorInputFilter
DC output voltage at 125 mA	350 V	FullWave;CapacitorInputFilter
AC plate voltage each plate	450 V RMS	FullWave;CapacitorInputFilter
Effective plate supply impedance each plate	105 Ω	CapacitorInputFilter
DC output voltage at 80 mA	490 V	FullWave;CapacitorInputFilter
Application	Full-wave heater-cathode rectifier for AC and automobile receivers Section1	

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage nominal	6.3 V	—
Heater current	1.2 A	—
Peak inverse plate voltage	1250 V	—
Peak plate current per plate	375 mA	—
Hot-switching transient plate current	2.6 A	—
Peak heater-cathode voltage	450 V	—
AC plate-to-plate supply voltage RMS	700 V	CapacitorInputFilter;700VPlateToPlate
Filter input component	10 µF	CapacitorInputFilter;700VPlateToPlate
DC output voltage at full load	350 V	CapacitorInputFilter;700VPlateToPlate
Full-load DC output current	125 mA	CapacitorInputFilter;700VPlateToPlate
AC plate-to-plate supply voltage RMS	900 V	CapacitorInputFilter;900VPlateToPlate
Filter input component	10 µF	CapacitorInputFilter;900VPlateToPlate
DC output voltage at full load	490 V	CapacitorInputFilter;900VPlateToPlate
Full-load DC output current	80 mA	CapacitorInputFilter;900VPlateToPlate
AC plate-to-plate supply voltage RMS	700 V	ChokeInputFilter;700VPlateToPlate
Filter input component	10 H	ChokeInputFilter;700VPlateToPlate
DC output voltage at full load	250 V	ChokeInputFilter;700VPlateToPlate
Full-load DC output current	150 mA	ChokeInputFilter;700VPlateToPlate
AC plate-to-plate supply voltage RMS	900 V	ChokeInputFilter;900VPlateToPlate
Filter input component	10 H	ChokeInputFilter;900VPlateToPlate
DC output voltage at full load	350 V	ChokeInputFilter;900VPlateToPlate
Full-load DC output current	125 mA	ChokeInputFilter;900VPlateToPlate

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage	1250 V	FullWaveRectifier
Peak plate current per plate	375 mA	FullWaveRectifier
Hot-switching transient plate current	2.6 A	0.2SecondMaximum
AC plate-to-plate supply voltage	700 V	CapacitorInputFilter
Effective plate-supply impedance per plate	50 ohm	CapacitorInputFilter
DC output voltage at full load	350 V	CapacitorInputFilter;LoadCurrent=125mA
AC plate-to-plate supply voltage	900 V	CapacitorInputFilter
Effective plate-supply impedance per plate	105 ohm	CapacitorInputFilter
DC output voltage at full load	490 V	CapacitorInputFilter;LoadCurrent=80mA
DC output voltage at full load	250 V	ChokeInputFilter;ACPlateToPlate=700V;LoadCurrent=150mA
DC output voltage at full load	350 V	ChokeInputFilter;ACPlateToPlate=900V;LoadCurrent=125mA

1975 RCA RC30

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak inverse plate voltage	1250 V	FullWaveRectifier
Peak plate current per plate	375 mA	FullWaveRectifier
Hot-switching transient plate current	2.6 A	0.2SecondMaximum

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

