



ELECTRONIC TUBE REFERENCE

5R4GYA

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Directly heated full-wave high-vacuum rectifier of the 5R4 family, providing approximately 250 mA DC output and high inverse-voltage capability for demanding power supplies.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	2800 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	650 mA
Full-wave power rectifier for AC-operated equipment requiring substantial DC output current.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	2800 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	650 mA
Second physical rectifier section; promoted electrical properties populated from identical section.	

5R4GYA is a Rectifier device. Full-wave power rectifier for AC-operated equipment requiring substantial DC output current.

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	5 V	—
Heater current	2 A	—
DC output current	75 mA	Rectifier service

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 voltage	2800 V	—
Maximum DC output current	250 mA	FullWave
Maximum steady-state peak plate current per plate	650 mA	EachPlate
AC plate voltage per plate	700 V RMS	CapacitorInputFilter; FullLoad
DC output current	250 mA	CapacitorInputFilter; FullLoad
Effective plate supply resistance per plate	125 ohm	CapacitorInputFilter; FullLoad
Filter input capacitance	4 uF	CapacitorInputFilter; FullLoad
DC output voltage	700 V	CapacitorInputFilter; FullLoad

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate	750 V RMS	CapacitorInputFilter; FullLoad
DC output current	150 mA	CapacitorInputFilter; FullLoad
Effective plate supply resistance per plate	500 ohm	CapacitorInputFilter; FullLoad
Filter input capacitance	4 uF	CapacitorInputFilter; FullLoad
DC output voltage	810 V	CapacitorInputFilter; FullLoad
AC plate voltage per plate	900 V RMS	CapacitorInputFilter; FullLoad
DC output current	150 mA	CapacitorInputFilter; FullLoad
Effective plate supply resistance per plate	575 ohm	CapacitorInputFilter; FullLoad
Filter input capacitance	4 uF	CapacitorInputFilter; FullLoad
DC output voltage	950 V	CapacitorInputFilter; FullLoad
AC plate voltage per plate	750 V RMS	ChokeInputFilter
DC output current	250 mA	ChokeInputFilter
Filter input choke	5 H	ChokeInputFilter
DC output voltage	590 V	ChokeInputFilter
AC plate voltage per plate	950 V RMS	ChokeInputFilter
DC output current	175 mA	ChokeInputFilter
Filter input choke	10 H	ChokeInputFilter
DC output voltage	750 V	ChokeInputFilter

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum peak inverse voltage	2800 V	—
Maximum DC output current	250 mA	FullWave
Maximum steady-state peak plate current per plate	650 mA	EachPlate
AC plate voltage per plate	700 V RMS	CapacitorInputFilter; FullLoad
DC output current	250 mA	CapacitorInputFilter; FullLoad