



ELECTRONIC TUBE REFERENCE

5R4WGB

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Long-life ruggedized full-wave high-vacuum rectifier with shock-mounted construction for demanding high-voltage and high-altitude service, providing approximately 250 mA DC output.

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	700 mA
WARM-UP TIME	10 s
Representative row for identical repeated sections.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	2800 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	700 mA
WARM-UP TIME	10 s
Second physical rectifier section; promoted electrical properties populated from identical section.	

Long-life ruggedized full-wave high-vacuum rectifier with extensive lot qualification and shock-mounted construction for reliable high-voltage and high-altitude service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5 V	—
Heater current	2 A	—
AC plate voltage per plate	900 V	ChokeInputFilter
Input choke	10 H	ChokeInputFilter
DC output current	165 mA	ChokeInputFilter
DC output voltage full load	840 V	ChokeInputFilter
AC plate voltage per plate	700 V	CapacitorInputFilter
Input capacitor	4 uF	CapacitorInputFilter
DC output current	275 mA	CapacitorInputFilter
DC output voltage full load	730 V	CapacitorInputFilter
Maximum peak inverse voltage	3050 V	—
Nominal DC output current	275 mA	—
Maximum peak forward current	700 mA	—
Warmup time	10 s	—

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Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	5 V	—
Heater current	2 A	—
AC plate voltage per plate	900 V	ChokeInputFilter