



ELECTRONIC TUBE REFERENCE

5R4GB

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Rugged glass-octal full-wave rectifier intended for industrial and military high-voltage power supplies. Its construction supports approximately 250 mA DC output with high inverse-voltage capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	5 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	3100 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	715 mA
Published maximum ratings, characteristics, typical operation, rectifier data, and capacitances reviewed.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	3100 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	715 mA
Second physical rectifier section; promoted electrical properties populated from identical section.	

INDUSTRIAL TYPE Glass octal type for industrial and military applica- 5 19D; requires octal socket. tions.
Outlines section,

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	3100 volts	Published value from supplied target entry
Peak Plate Current Per Plate	715 mA	Published value from supplied target entry
AC-Plate-to-Plate Supply Voltage (RMS. without load)	2000 volts	Published value from supplied target entry
Half-load to full-load current	170 volts	Published value from supplied target entry
DC Ouput Current	150 mA	Published value from supplied target entry
AC Plate-to-Plate Supply Voltage (RMS, without load)	1900 volts	Published value from supplied target entry
Half-load to full-load current	40 volts	Published value from supplied target entry
DC Output Current	176 mA	Published value from supplied target entry
the filament terminals should be	117 volts	Published value from supplied target entry
Peak Inverse Plate Voltage	1650 volts	Published value from supplied target entry
Peak Plate Current (Per Plate)	1 ampere	Published value from supplied target entry
AC Plate-to-Plate Supply Voltage (rms)	1100 volts	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TYPICAL OPERATION (With Capacitor-Input Filter)	250	Published value from supplied target entry
Filter-Input Capacitor	20	Published value from supplied target entry

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current. When capacitor-input circuits are used, a maximum value of	3 amperes	Published value from supplied target entry
value. When a filter-input capacitor larger than	20	Published value from supplied target entry
Filter-Input Capacitor*	40	Published value from supplied target entry

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TYPE	5	Published value from supplied target entry

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Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Inverse Plate Voltage	3100 volts	Published value from supplied target entry
Peak Plate Current Per Plate	715 mA	Published value from supplied target entry

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TYPICAL OPERATION (With Capacitor-Input Filter)	250	Published value from supplied target entry

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