



ELECTRONIC TUBE REFERENCE

5X4GA

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Filamentary full-wave high-vacuum rectifier with increased output-current capability. Its heavy five-volt filament and substantial peak-current handling suit demanding conventional power supplies.

GENERAL CHARACTERISTICS

BASE DESIGNATION	50	BASE PINS	—
NOMINAL HEATER	5 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier

PEAK INVERSE VOLTAGE	1550 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	47 V

Published full-wave rectifier ratings promoted from the printed chart; supply-voltage and voltage-drop test conditions retained as parameters.

SECTION2 Rectifier

PEAK INVERSE VOLTAGE	1550 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	900 mA
FORWARD VOLTAGE DROP	47 V

Second physical rectifier section; electrical properties populated from corresponding identical section.

Filamentary full-wave high-vacuum rectifier with increased output-current capability.



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
DC output current capacitor-input	275 mA	CapacitorInputFilter
DC output current choke-input	250 mA	ChokeInputFilter

1950 SYLVANIA

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current capacitor-input	275 mA	CapacitorInputFilter
DC output current choke-input	250 mA	ChokeInputFilter



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
Filament/heater voltage	5 V	Published condensed-characteristics chart
Filament/heater current	3 A	Published condensed-characteristics chart
DC output current maximum	250 mA	FullWave
Peak inverse voltage maximum	1550 V	FullWave
RMS supply voltage per plate maximum	450 V	FullWave
Peak current per plate maximum	900 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	47 V	At 250 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	3 A	Published condensed-characteristics chart
DC output current maximum	250 mA	FullWave
Peak inverse voltage maximum	1550 V	FullWave
RMS supply voltage per plate maximum	450 V	FullWave
Peak current per plate maximum	900 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	47 V	At 250 mA DC