



ELECTRONIC TUBE REFERENCE

6Z31

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Twin-diode full-wave rectifier for capacitor-input or choke-input power supplies. Its 6.3 V heater and dual rectifier sections provide conventional moderate-current electronic power conversion.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	70 mA
PEAK FORWARD CURRENT	210 mA
<i>Representative electrical section; repeated identical physical sections compressed where applicable.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	70 mA
PEAK FORWARD CURRENT	210 mA
<i>Second physical rectifier section; electrical properties populated from corresponding identical section.</i>	

Twin-diode full-wave rectifier for capacitor-input or choke-input power supplies.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate, capacitor input	325 V	CapacitorInputFilter
AC plate voltage per plate, choke input	450 V	ChokeInputFilter
DC output current	70 mA	Section1/Section2
DC output voltage, capacitor input	355 V	CapacitorInputFilter
DC output voltage, choke input	375 V	ChokeInputFilter

195X TESLA

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage per plate, capacitor input	325 V	CapacitorInputFilter
AC plate voltage per plate, choke input	450 V	ChokeInputFilter
DC output current	70 mA	Section1/Section2
DC output voltage, capacitor input	355 V	CapacitorInputFilter
DC output voltage, choke input	375 V	ChokeInputFilter

1969 Tesla Manual of Electronic Tubes

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

1969 TESLA MANUAL OF ELECTRONIC TUBES

Section 1 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	600 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum choke inductance	8 H	Choke-input filter
Maximum rectifier capacitor	4 uF	Capacitor-input filter

1969 TESLA MANUAL OF ELECTRONIC TUBES

Section 2 · Rectifier

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal value
Heater current	600 mA	Published nominal value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum choke inductance	8 H	Choke-input filter
Maximum rectifier capacitor	4 uF	Capacitor-input filter

TUBE TINKER

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

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

