



ELECTRONIC TUBE REFERENCE

28Z5

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Double-diode full-wave rectifier for AC power supplies. Its 28 V heater construction provides approximately 1.25 kV peak inverse-voltage capability, 100 mA DC output, and 300 mA peak-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5AB	BASE PINS	8
NOMINAL HEATER	28 V / 240 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PLATE RESISTANCE	15 Ω
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	300 mA
FORWARD VOLTAGE DROP	40 V
<i>Published maximum ratings, representative operating conditions, rectifier service data, and capacitance columns reviewed.</i>	

SECTION2 Rectifier	
PLATE RESISTANCE	15 Ω
PEAK INVERSE VOLTAGE	1250 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	300 mA
FORWARD VOLTAGE DROP	40 V
<i>Second physical rectifier section; electrical properties populated from the documented identical section.</i>	

Full-wave rectifier tube with two diode sections.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage 28.0 Volts	28 V	Heater Voltage 28.0 Volts
Heater Current 0.240 Amperes	240 mA	Heater Current 0.240 Amperes
Maximum Steady-State Peak Plate Current Per Plate 300 Ma.	300 Ma	Maximum Steady-State Peak Plate Current Per Plate 300 Ma.
Tube Voltage Drop: Measured with applied DC at 40 Volts	40 V	Tube Voltage Drop: Measured with applied DC at 40 Volts
Heater Voltage 28.0 Volts	28 V	Heater Voltage 28.0 Volts
DC Output Current 100 Ma.	100 Ma	DC Output Current 100 Ma.
Heater Voltage 28.0 Volts	28 V	Heater Voltage 28.0 Volts
AC Plate Voltage per Plate (RMS) 450 Volts	450 V	AC Plate Voltage per Plate (RMS) 450 Volts
DC Output Current 100 Ma,	100 Ma	DC Output Current 100 Ma,

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC Plate Voltage (RMS) Condenser Input 325 Volts	325 V	Maximum AC Plate Voltage (RMS) Condenser Input 325 Volts

1950 SYLVANIA

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage 28.0 Volts	28 V	Heater Voltage 28.0 Volts
Heater Current 0.240 Amperes	240 mA	Heater Current 0.240 Amperes

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	28 V	Published heater/filament rating
Heater/filament current	240 mA	Published heater/filament rating
Tube voltage drop	40 V	At 100 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	100 mA	FullWave
Peak inverse voltage	1250 V	FullWave
RMS supply voltage	325 V	FullWave
Peak current	300 mA	FullWave

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	28 V	Published heater/filament rating
Heater/filament current	240 mA	Published heater/filament rating
Tube voltage drop	40 V	At 100 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	100 mA	FullWave
Peak inverse voltage	1250 V	FullWave
RMS supply voltage	325 V	FullWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak current	300 mA	FullWave

TUBE TINKER

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

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