



ELECTRONIC TUBE REFERENCE

5931

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Rugged directly heated full-wave rectifier for severe vibration and shock environments. Its heavy five-volt filament and substantial current capability suit military and heavy-duty professional power supplies.

GENERAL CHARACTERISTICS

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

5T - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – F	–	F – Filament	CONNECTED
PIN4 – P1	A	P – Plate (Anode)	CONNECTED
PIN6 – P2	A	P – Plate (Anode)	CONNECTED
PIN8 – F	–	F – Filament	CONNECTED

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1700 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	58 V
<i>Two electrically identical full-wave rectifier sections; one representative section emitted.</i>	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1700 V
NOMINAL OUTPUT CURRENT	250 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	58 V
<i>Second physical rectifier section; electrical properties populated from applicable published ratings.</i>	

Rugged full-wave filamentary rectifier designed for severe vibration and shock service.

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
Filament Voltage (Avg.) . . 5 V 5.0 Volts		Filament Voltage (Avg.) . . 5.0 Volts
Filament Current (Avg.) . . 3 A 3.0 Amperes		Filament Current (Avg.) . . 3.0 Amperes
Peak Plate Current Each Plate 750 675 Ma	675 Ma	Peak Plate Current Each Plate 750 675 Ma
Transient Peak Plate Current Each Plate 2.5 Amperes 1.655"MIN.	2.5 A	Transient Peak Plate Current Each Plate 2.5 Amperes 1.655"MIN.
Tube Voltage Drop at 225 Ma Each Plate 58 Volts	58 V	Tube Voltage Drop at 225 Ma Each Plate 58 Volts
AC Plate Voltage Fach Plate (RMS) . . 450 Volts	450 V	AC Plate Voltage Fach Plate (RMS) . . 450 Volts
D C Output Current .o . 225 Ma	225 Ma	D C Output Current .o . 225 Ma
A C Plate Voltage Each Plate (RMS) 550 Volts	550 V	A C Plate Voltage Each Plate (RMS) 550 Volts
D C Output Current 225 Ma	225 Ma	D C Output Current 225 Ma

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Current (Max.)? 3.3 Amperes	3.3 A	Filament Current (Max.)? 3.3 Amperes
Filament Current (Min.)? 2.7 Amperes 1.265™MAX	2.7 A	Filament Current (Min.)? 2.7 Amperes 1.265™MAX
Peak Inverse Plate Voltage 1700 1550 Volts [o] 46') 'MAX	1550 V	Peak Inverse Plate Voltage 1700 1550 Volts [o] 46') 'MAX

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC Output Current . . 250 225 Ma 1655 ="MAX. T	225 Ma	DC Output Current . . 250 225 Ma 1655 ="MAX. T

1950 SYLVANIA

Section 2 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage (Avg.) . . 5.0 Volts	5 V	Filament Voltage (Avg.) . . 5.0 Volts
Filament Voltage (Avg.) . . 5.0 Volts	5 V	Filament Voltage (Avg.) . . 5.0 Volts
Filament Current (Avg.) . . 3.0 Amperes	3 A	Filament Current (Avg.) . . 3.0 Amperes
Filament Current (Avg.) . . 3.0 Amperes	3 A	Filament Current (Avg.) . . 3.0 Amperes
Peak Plate Current Each Plate 750 675 Ma	675 Ma	Peak Plate Current Each Plate 750 675 Ma
Peak Plate Current Each Plate 750 675 Ma	675 Ma	Peak Plate Current Each Plate 750 675 Ma
Transient Peak Plate Current Each Plate 2.5 Amperes 1.655"MIN.	2.5 A	Transient Peak Plate Current Each Plate 2.5 Amperes 1.655"MIN.
Transient Peak Plate Current Each Plate 2.5 Amperes 1.655"MIN.	2.5 A	Transient Peak Plate Current Each Plate 2.5 Amperes 1.655"MIN.
Tube Voltage Drop at 225 Ma Each Plate 58 Volts	58 V	Tube Voltage Drop at 225 Ma Each Plate 58 Volts
Tube Voltage Drop at 225 Ma Each Plate 58 Volts	58 V	Tube Voltage Drop at 225 Ma Each Plate 58 Volts
AC Plate Voltage Fach Plate (RMS) . . 450 Volts	450 V	AC Plate Voltage Fach Plate (RMS) . . 450 Volts
AC Plate Voltage Fach Plate (RMS) . . 450 Volts	450 V	AC Plate Voltage Fach Plate (RMS) . . 450 Volts
D C Output Current .o . 225 Ma	225 Ma	D C Output Current .o . 225 Ma
D C Output Current .o . 225 Ma	225 Ma	D C Output Current .o . 225 Ma
A C Plate Voltage Each Plate (RMS) 550 Volts	550 V	A C Plate Voltage Each Plate (RMS) 550 Volts

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
A C Plate Voltage Each Plate (RMS) 550 Volts	550 V	A C Plate Voltage Each Plate (RMS) 550 Volts
D C Output Current 225 Ma	225 Ma	D C Output Current 225 Ma
D C Output Current 225 Ma	225 Ma	D C Output Current 225 Ma

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Current (Max.)? 3.3 Amperes	3.3 A	Filament Current (Max.)? 3.3 Amperes
Filament Current (Max.)? 3.3 Amperes	3.3 A	Filament Current (Max.)? 3.3 Amperes
Filament Current (Min.)? 2.7 Amperes 1.265™MAX	2.7 A	Filament Current (Min.)? 2.7 Amperes 1.265™MAX
Filament Current (Min.)? 2.7 Amperes 1.265™MAX	2.7 A	Filament Current (Min.)? 2.7 Amperes 1.265™MAX
Peak Inverse Plate Voltage 1700 1550 Volts [o] 46')'MAX	1550 V	Peak Inverse Plate Voltage 1700 1550 Volts [o] 46')'MAX
Peak Inverse Plate Voltage 1700 1550 Volts [o] 46')'MAX	1550 V	Peak Inverse Plate Voltage 1700 1550 Volts [o] 46')'MAX
DC Output Current . . 250 225 Ma 1655 ="MAX. T	225 Ma	DC Output Current . . 250 225 Ma 1655 ="MAX. T
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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
Maximum DC Output Current	250 mA	FullWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Peak Inverse Voltage	1700 V	FullWave
Maximum RMS Supply Voltage Per Plate	500 V	FullWave
Maximum Peak Current Per Plate	750 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	58 V	FullWave
Forward Voltage Drop Test Current	225 mA	FullWave

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Output Current	250 mA	FullWave
Maximum DC Output Current	250 mA	FullWave
Maximum Peak Inverse Voltage	1700 V	FullWave
Maximum RMS Supply Voltage Per Plate	500 V	FullWave
Maximum Peak Current Per Plate	750 mA	FullWave

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Forward Voltage Drop	58 V	FullWave
Forward Voltage Drop Test Current	225 mA	FullWave

TUBE TINKER

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