



ELECTRONIC TUBE REFERENCE

35Z5GT

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Glass-octal half-wave vacuum rectifier for AC/DC receiver supplies, with a tapped 35 V heater for a panel lamp. It provides conventional transformerless B-plus rectification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	6AD-0-0	BASE PINS	6
NOMINAL HEATER	35 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
MAXIMUM PLATE VOLTAGE	235 V
PEAK INVERSE VOLTAGE	700 V
NOMINAL OUTPUT CURRENT	100 mA
PEAK FORWARD CURRENT	600 mA
FORWARD VOLTAGE DROP	18 V
MAXIMUM HEATER-CATHODE VOLTAGE	350 V
<i>Output current maximum without panel lamp.</i>	

Glass-octal half-wave vacuum rectifier used in AC/DC receiver power supplies, with a tapped heater for a panel lamp.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Ken Rad

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

1937 KEN RAD

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	125 V	AC Plate Voltage (RMS) 125 Volts Max.
DC Load Current	60 mA	DC Load Current with No. 50 or No. 51 Pilot Lamp 60 Milliamperes Max.
DC Load Current	100 mA	DC Load Current without Tap Connected 100 Milliamperes Max.
Average Tube Voltage Drop	200 V	Average Tube Voltage Drop 16 Volts at 200 Milliamperes
DC Load Current	60 mA	3. Altho it is Eossible to use DC load currents above 60 milliamperes in combination with hifih current
DC Load Current	14 V	S PILOT LAMP VOLTS VS DC LOAD CURRENT 14
Plate Voltage	235 V	Maximum AC plate voltage (r.m.8.). « o o & o & & 235 volts
Plate Current	18 V	Plate current . . & v v 4 e . en o e o . . 18 ' volts



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
Peak inverse voltage	700 V	Published rectifier service
DC output current	100 mA	Published rectifier service
Peak current	600 mA	Published rectifier service
RMS supply voltage	235 V	Published rectifier service

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tube voltage drop	18 V	At 200 mA DC
Heater/filament voltage	35 V	Published heater/filament rating
Heater/filament current	150 mA	Published heater/filament rating



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC plate voltage RMS	117 V	WithPanelLamp
DC output current	90 mA	WithPanelLamp
Panel lamp shunt resistance	250 ohm	90mAOutput

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tapped heater section voltage	7.5 V	—



SOURCE DATA APPENDIX

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK
Section 1 · Rectifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	35 V	—
Heater Current	150 mA	—
PanelLampTapPresent	1 boolean	—
Panel Lamp Section Voltage	7.5 V	NoLamp
Panel Lamp Section Voltage	5.5 V	WithLamp

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PeakInverseVoltageMaximum	700 V	—
PeakPlateCurrentMaximum	600 mA	—
DCAOutputCurrentMaximum	100 mA	—
HeaterCathodeVoltageMaximum	350 V	—
Reservoir Capacitance	40 uF	CapacitorInputFilter
RMSInputVoltage	117 V	HalfWaveRectifier



SOURCE DATA APPENDIX

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4
Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectifierMaximumPeakInverseVoltage	700 V	Published datasheet value

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RectifierNominalOutputCurrent	100 mA	Published datasheet value
RectifierPeakForwardCurrent	600 mA	Published datasheet value
Heater Voltage	35 V	Nominal heater rating
Heater Current	150 mA	Nominal heater rating
ACPlateVoltageRMS	235 V	—
DCOutputCurrentWithPanelLampNoShunt	60 mA	PanelLamp
DCOutputCurrentWithPanelLampShunt	90 mA	PanelLamp
PanelLampHeaterSectionVoltage	7.5 V	—


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AC Plate Supply Voltage RMS	235 V	HalfWaveRectifier
Heater Tap Voltage RMS	15 V	PanelLampFails


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 RCA RC30

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

1975 RCA RC30

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Entire Heater (pins 2 and 7)	32 V	Published in approved 35Z5GT target datasheet entry; Section1
Panel Lamp Section (pins 2 and 3) 7.5	5.5 V	Published in approved 35Z5GT target datasheet entry; Section1
Between Pins 2 and 7	150 mA	Published in approved 35Z5GT target datasheet entry; Section1
Between Pins 3 and 7	150 mA	Published in approved 35Z5GT target datasheet entry; Section1
Peak Inverse Plate Voltage	700 V	Published in approved 35Z5GT target datasheet entry; Section1
No Shunting Resistor	60 mA	Published in approved 35Z5GT target datasheet entry; Section1
Shunting Resistor	90 mA	Published in approved 35Z5GT target datasheet entry; Section1
Without Panel Lamp	100 mA	Published in approved 35Z5GT target datasheet entry; Section1
AC Plate-Supply Voltage (rms) 117 117 117 117	235 V	Published in approved 35Z5GT target datasheet entry; Section1
Supply Impedance 15 15 15 15	100 Ω	Published in approved 35Z5GT target datasheet entry; Section1
Panel- Lamp Shunting Resistor 300 150	100 Ω	Published in approved 35Z5GT target datasheet entry; Section1
Average Output Current 60 70 80 90	60 mA	Published in approved 35Z5GT target datasheet entry; Section1
AC Plate-Supply Voltage (rms) 117	235 V	Published in approved 35Z5GT target datasheet entry; Section1
Minimum Total Effective Plate-Supply Impedance 15	100 Ω	Published in approved 35Z5GT target datasheet entry; Section1
Average Output Current 100	100 mA	Published in approved 35Z5GT target datasheet entry; Section1
At half-load eurrent	50 mA	Published in approved 35Z5GT target datasheet entry; Section1
At half-load eurrent 50 mA) (140	280 V	Published in approved 35Z5GT target datasheet entry; Section1
At full-load current (	100 mA	Published in approved 35Z5GT target datasheet entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
At full-load current (100 mA) 120	235 V	Published in approved 35Z5GT target datasheet entry; Section1
Half-load to full-load current	20 V	Published in approved 35Z5GT target datasheet entry; Section1
70 mA	800 Ω	Published in approved 35Z5GT target datasheet entry; Section1
For <lc ouptut current of	80 mA	Published in approved 35Z5GT target datasheet entry; Section1
For <lc ouptut current of 80 mA	400 Ω	Published in approved 35Z5GT target datasheet entry; Section1
90 mA	250 Ω	Published in approved 35Z5GT target datasheet entry; Section1

TUBE TINKER

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