



ELECTRONIC TUBE REFERENCE

35Z3

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated half-wave high-vacuum rectifier for line-operated receiver supplies. Its 35 V, 150 mA heater and moderate current capability suit transformerless radios.

GENERAL CHARACTERISTICS

BASE DESIGNATION	4Z	BASE PINS	7
NOMINAL HEATER	35 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
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
Published promoted fields populated by semantic section ownership.	

35Z3 is listed in the supplied receiving-tube handbook as a half-wave high-vacuum rectifier. The published heater/filament rating is 35.0 V at 0.15 A.



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
HeaterOrFilamentVoltage	35 V	—
HeaterOrFilamentCurrent	150 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
ACVoltagePerPlate	250 V	CapacitorInputFilter



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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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
ACPlateVoltageRMSMaximum	235 V	—
Peak Inverse Voltage	700 V	—
DC Output Current	100 mA	—