



ELECTRONIC TUBE REFERENCE

25Z4

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Indirectly heated half-wave rectifier for transformerless receivers with series-connected heaters. Rated for approximately 700 V peak inverse voltage, 125 mA DC output, and 750 mA peak current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	5AA	BASE PINS	8
NOMINAL HEATER	25 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	700 V
NOMINAL OUTPUT CURRENT	125 mA
PEAK FORWARD CURRENT	750 mA
FORWARD VOLTAGE DROP	12 V
Source-defined physical/function section.	

Cathode-type half-wave rectifier for transformerless receivers with series-connected heaters.



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	A.C. Plate Voltage (RMS) 125 Volts Max.
Plate Current	750 mA	Pealk Plate Current 750 Ma. Max.



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	25 V	Published heater/filament rating
Heater/filament current	300 mA	Published heater/filament rating
Tube voltage drop	20.5 V	At 250 mA DC

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC output current	125 mA	HalfWave
Peak inverse voltage	700 V	HalfWave
RMS supply voltage	235 V	HalfWave

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak current	750 mA	HalfWave

TUBE TINKER

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

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

© 2026 Tube Tinker