



ELECTRONIC TUBE REFERENCE

BA

Rectifier - Full Wave electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

RECTIFIER-RECTIFIER

Cold-cathode twin-diode gas-filled full-wave rectifier requiring no heater supply. Rated for approximately 1 kV peak inverse voltage and 350 mA nominal output, using gas-discharge conduction for heaterless rectification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	5
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	1 A
FORWARD VOLTAGE DROP	80 V
Published ratings and characteristics promoted from the approved source.	

SECTION2 Rectifier	
PEAK INVERSE VOLTAGE	1000 V
NOMINAL OUTPUT CURRENT	350 mA
PEAK FORWARD CURRENT	1 A
FORWARD VOLTAGE DROP	80 V
Second physical rectifier section; promoted electrical properties populated from identical section.	

BA is a Raytheon cold-cathode twin-diode gas-filled full-wave rectifier requiring no heater supply.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC voltage per plate RMS	350 V	FullWave GasFilled
Maximum DC output current	350 mA	FullWave GasFilled
Maximum peak plate current	1000 mA	FullWave GasFilled
Maximum inverse peak voltage	1000 V	FullWave GasFilled

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum starting peak voltage	400 V	FullWave GasFilled
Average dynamic voltage drop	80 V	FullWave GasFilled

1937 RAYTHEON RADIO RECEIVING TUBES

Section 2 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum AC voltage per plate RMS	350 V	FullWave GasFilled
Maximum DC output current	350 mA	FullWave GasFilled

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Rectifier

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	220 V	—
Grid bias	-6 V	—
Anode current	3 mA	—
Durchgriff	6.6 %	—
Cold anode voltage maximum	400 V	—
Grid leak resistance maximum	600 kΩ	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-anode capacitance	3.8 pF	—