



ELECTRONIC TUBE REFERENCE

BR

Rectifier - Half Wave electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

RECTIFIER

Raytheon cold-cathode gas-filled half-wave rectifier requiring no heater supply. Its heaterless construction provides moderate-current AC-to-DC conversion for compact electronic supplies.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Rectifier	
PEAK INVERSE VOLTAGE	850 V
NOMINAL OUTPUT CURRENT	50 mA
PEAK FORWARD CURRENT	200 A
FORWARD VOLTAGE DROP	80 V
<i>Published gas-rectifier RMS voltage, output current, peak current, inverse voltage, starting voltage and dynamic drop reviewed.</i>	

BR is a Raytheon cold-cathode gas-filled half-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	300 V	HalfWave GasFilled
Maximum DC output current	50 mA	HalfWave GasFilled
Maximum peak plate current	200 mA	HalfWave GasFilled
Maximum inverse peak voltage	850 V	HalfWave GasFilled

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum starting peak voltage	300 V	HalfWave GasFilled
Average dynamic voltage drop	80 V	HalfWave GasFilled