HALF-WAVE HIGH-VACUUM RECTIFIER

The I-V supersedes the mercury-vapor type 1 and is interchangeable with it.

Heater
Coated Unipotential Cathode
Voltage 6.3 a-c or d-c volts
Current 0.3 amp.
Maximum Overall Length 4-3/16" 1-9/16"
Maximum Diameter ST-12
Bulb
Base
Pin 1-Heater Pin 3-Cathode
Pin 2-Plate Pin 4-Heater
Mounting Position BOTTOM VIEW (4G)

HALF-WAVE RECTIFIER

Peak Inverse Voltage 1000 max. volts
Peak Plate Current 270 max. ma.
D-C Heater-Cathode Potential 500 max. volts
Typical Operation with Condenser-Input Filter:
A-C Plate Voltage (RMS) 117 150 325 max. volts
Total Effective Plate-
Supply Impedance 0 min. 30 min. 75 min. ohms
D-C Output Current 45 max. 45 max. 45 max. ma.

* Under no condition of operation should the normal operating heater voltage of 6.3 volts ever fluctuate to exceed a maximum of 7.5 volts.
* When a filter-input condenser larger than 40 μf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.

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AVERAGE PLATE CHARACTERISTIC

<table>
<thead>
<tr>
<th>PLATE VOLTS D.C.</th>
<th>PLATE MILLIAMPERES</th>
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FEB. 2, 1940
RCA RADIATION DIVISION
RCA MANUFACTURING COMPANY, INC.
**OPERATION CHARACTERISTICS**

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<tr>
<th>CURVES</th>
<th>FILTER INPUT CONDENSER μF</th>
<th>TOT. EFFECT. PLATE-SUPPLY IMPEDANCE OHMS</th>
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</table>

$E_f = 6.3$ VOLTS

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**D-C OUTPUT VOLTS AT INPUT TO FILTER**

- 325 VOLTS
- 300 VOLTS
- 250 VOLTS
- 200 VOLTS
- 150 VOLTS
- 100 VOLTS

**D-C LOAD MILLIAMPERES**

DEC. 29, 1939

RCA RADIotron Division
RCA Manufacturing Company, Inc.

92C-5362 R2