CHARACTERISTIC DATA SHEET
RAYTHEON 4-PILLAR TUBE

FULL WAVE GAS FILLED RECTIFIER
(Ionic Heated Cathode Type)

HEATER RATING

No heater supply required.

OPERATING CONDITIONS and CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Voltage Output</td>
<td>300 max. Volts</td>
</tr>
<tr>
<td>DC Output Current</td>
<td>30 min. m.a.</td>
</tr>
<tr>
<td>Peak Plate Current</td>
<td>75 max. m.a.</td>
</tr>
<tr>
<td>Starting Voltage</td>
<td>200 max. m.a.</td>
</tr>
<tr>
<td>Voltage Drop (Dynamic)</td>
<td>300 min. Volts</td>
</tr>
<tr>
<td></td>
<td>24 avg. Volts</td>
</tr>
</tbody>
</table>

The OZ3 was developed primarily for use in vibrator type B-supply units for automobile receivers. It has the typical characteristics of all gas-filled rectifiers as regards a constant drop and ability to handle peak currents and a tendency to generate rf noise. The rf noise may be eliminated by proper shielding and filtering. The shielding and filtering commonly used to eliminate vibrator noise will usually be sufficient.

The OZ3 is filled with a permanent gas rather than a vapor filling. The tube characteristics are independent of the surrounding temperature.

RAYTHEON ENGINEERING SERVICE

June 7, 1935

from RMA release #31, June 17, 1935
OZ3 OPERATING CHARACTERISTICS
IN TYPICAL VIBRATOR ELIMINATOR

\[ E_a = \text{VOLTS} \]

\[ I_{op} = \text{MILLIAMPERES} \]

\[ E_{op} \]

\[ DYNAMIC \ DROP \]

\[ I_b \]

\[ E_a = 8.2 \]
\[ E_a = 6.2 \]
\[ E_a = 4.4 \]

\[ 2 \]
\[ 5 \]

6-6-35