Replacement Type

TYPE 1T2/R16
(WIRE ENDED)
HIGH VOLTAGE
RECTIFIER

The BRIMAR type 1T2.R16 is a directly heated half-wave rectifier designed for use in the E.H.T. supply of television receivers. The low filament consumption permits operation from the line fly-back pulses, while the absence of base enables the valve to be wired close to the line output transformer.

RATINGS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filament Voltage</td>
<td>1.4 volts*</td>
</tr>
<tr>
<td>Filament Current</td>
<td>0.14 amp.</td>
</tr>
<tr>
<td>Peak Inverse Voltage</td>
<td>15 kV, max.</td>
</tr>
<tr>
<td>Peak Anode Current</td>
<td>12 mA max.</td>
</tr>
<tr>
<td>Direct Anode Current</td>
<td>2 mA max.</td>
</tr>
</tbody>
</table>

INTER-ELECTRODE CAPACITANCES

Anode to Filament (cA, f)   0.65 pF

* Correct filament operation is essential in order to secure long life. Filament temperature during normal operation may be compared with that of a second valve running from a low frequency filament supply whose voltage can be accurately measured. At least 1 inch of leads should be allowed when soldering the valve into position to avoid damage to the glass seals.

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BRIMAR 1T2
HALF WAVE RECTIFIER OFF LINE FLYBACK

PULSE FREQUENCY = 10 kc/s
PULSE WIDTH = 5 μsecs
LIMITING RESISTOR = 100 kHz
RESERVOIR CAPACITOR = 500 μF

INPUT PULSE = 15 kV PEAK
12.5 kV PEAK
10 kV PEAK
7.5 kV PEAK

D.C. OUTPUT VOLTAGE kV
4 6 8 10 12 14 16 18

D.C. OUTPUT CURRENT μA
0 50 100 150 200 250