DOUBLE DIODE

COATED FILAMENT
5.0 VOLTS 2.0 AMP.
AC OR DC

VERTICAL MOUNTING POSITION

5Y3GT - HORIZONTAL OPERATION PERMITTED ⬅
IF PIN 62 AND 64 ARE IN A VERTICAL PLANE.

BOTTOM VIEW
INTERMEDIATE SHELL
5 PIN OCTAL
ST

GLASS BULB

THE 5Y3GT IS DESIGNED FOR USE AS A POWER RECTIFIER IN AC OPERATED RECEIVERS.

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

FILAMENT VOLTAGE 5.0 VOLTS
MAXIMUM PEAK INVERSE VOLTAGE 1400 VOLTS
MAXIMUM AC PLATE SUPPLY VOLTAGE EACH PLATE (RMS) SEE CHART #1
MAXIMUM STEADY STATE PEAK PLATE CURRENT EACH PLATE A 440 MA.
MAXIMUM TRANSIENT PEAK PLATE CURRENT EACH PLATE B 2.5 AMP.
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 125 MA. EACH PLATE) 50 VOLTS
MAXIMUM STEADY STATE DC OUTPUT CURRENT EACH PLATE SEE CHART #1

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
FULL-WAVE RECTIFIER

<table>
<thead>
<tr>
<th>FILAMENT VOLTAGE</th>
<th>INPUT TO CAPACITOR</th>
<th>FILTER CHOKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>1</td>
<td>5.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FILAMENT CURRENT</th>
<th>AC PLATE SUPPLY VOLTAGE EACH PLATE (RMS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>350</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INPUT CAPACITOR</th>
<th>INPUT CHOKE</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EFFECTIVE PLATE SUPPLY IMPEDANCE EACH PLATE</th>
<th>DC OUTPUT CURRENT</th>
<th>DC OUTPUT VOLTAGE AT FILTER INPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>125</td>
<td>360</td>
</tr>
</tbody>
</table>

AC PLATE SUPPLY VOLTAGE IS MEASURED WITHOUT LOAD.

A SEE CHART #2
B SEE CHART #3

SIMILAR TYPE REFERENCE: Electrically similar to 5Y4G and 80.

→ INDICATES A CHANGE.
5Y3GT (5Y4G, 80)

**Diagram 1: DC Output-Milliampères Each Plate vs. AC Plate Supply Volts (RMS) Each Plate (Without Load)**

- **Section A** indicates maximum operating values with choke input.
- **Section B** indicates maximum operating values with capacitor input.
- **Section C** and **Section D** highlight areas of permissible operation.

**Diagram 2: Rectification Efficiency vs. Peak AC Input Voltage Each Plate (Without Load)**

- **Area of Permissible Operation** is shaded.
- Based on steady-state peak plate current each plate of 440 milliampères.
Based on transient peak plate current of 2.5 amperes.