THE 6U4GT IS A HALF-WAVE HIGH-VACUUM RECTIFIER DESIGNED ESPECIALLY FOR USE AS A DAMPING DIODE IN TELEVISION DEFLECTION CIRCUITS. A HIGH VOLTAGE HEATER-CATHODE INSULATION RATING ELIMINATES THE NECESSITY FOR A SEPARATE HEATER ISOLATION TRANSFORMER.

DIRECT INTERELECTRODE CAPACITANCES
HEATER TO CATHODE: (H+K) 8.5 µF

RATINGS - ABSOLUTE VALUES
TELEVISION DAMPER SERVICE

HEATER VOLTAGE 6.3 VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE 3850 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE 110 VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE 3850 VOLTS
MAXIMUM PEAK PLATE CURRENT 660 MA.
MAXIMUM HOT-SWITCHING TRANSIENT PLATE CURRENT FOR DURATION OF 0.2 SEC. MAX. 3.65 AMP.
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 250 MA.) 21 VOLTS
DC OUTPUT CURRENT 138 MA.

HALF-WAVE RECTIFIER

HEATER VOLTAGE 6.3 VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE 500 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE 110 VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE 1375 VOLTS
MAXIMUM PEAK PLATE CURRENT 660 MA.
MAXIMUM HOT-SWITCHING TRANSIENT PLATE CURRENT FOR DURATION OF 0.2 SEC. MAX. 3.65 AMP.
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 250 MA.) 21 VOLTS
DC OUTPUT CURRENT 138 MA.

A. ABSOLUTE MAXIMUM RATINGS ARE THE LIMITING VALUES ABOVE WHICH THE SERVICEABILITY OF THE TUBE MAY BE IMPAIRED FROM THE VIEWPOINT OF LIFE AND SATISFACTORY PERFORMANCE. THEREFORE, IN ORDER NOT TO EXCEED THESE ABSOLUTE RATINGS THE EQUIPMENT DESIGNER HAS THE RESPONSIBILITY OF DETERMINING AN AVERAGE DESIGN VALUE FOR EACH RATING BELOW THE ABSOLUTE VALUE OF THAT RATING BY AN AMOUNT SUCH THAT THE ABSOLUTE VALUES WILL NEVER BE EXCEEDED BY ANY USUAL CONDITION OF LINE VOLTAGE VARIATION MANUFACTURING VARIATION (INCLUDING COMPONENTS) IN THE EQUIPMENT ITSELF, OR ADJUSTMENT OF CONTROLS.

B. THIS RATING IS APPLICABLE WHERE THE DUTY CYCLE OF THE VOLTAGE PULSE DOES NOT EXCEED 15% OF ONE SCANNING CYCLE AND ITS DURATION IS LIMITED TO 10 MICROSECONDS.

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<table>
<thead>
<tr>
<th>Operating Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Voltage</td>
<td>6.3 Volts</td>
</tr>
<tr>
<td>Heater Current</td>
<td>1.2 Amp</td>
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<tr>
<td>AC Plate Voltage (RMS)</td>
<td>350 Volts</td>
</tr>
<tr>
<td>DC Output Voltage</td>
<td>335 Volts</td>
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<tr>
<td>DC Output Current</td>
<td>125 MA</td>
</tr>
<tr>
<td>Filter Input Capacitor</td>
<td>20 μF</td>
</tr>
<tr>
<td>Total Effective Plate Supply Impedance</td>
<td>145 OHMS</td>
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