TWIN DIODE

FULL-WAVE RECTIFIER
COATED UNIPOTENTIAL CATHODE
ANY MOUNTING POSITION

GLASS BULB
INTERMEDIATE SHELL
6 PIN OCTAL B6-8
LOW LOSS PHENOLIC
OUTLINE DRAWING
JEDEC 9-11

THE 6X5WGT IS A CATHODE TYPE FULL-WAVE RECTIFIER EMPLOYING A T-9 ENVELOPE WITH A LOW LOSS OCTAL BASE. IT IS DESIGNED FOR USE IN APPLICATIONS WHERE SEVERE CONDITIONS OF VIBRATION AND SHOCK ARE ENCOUNTERED.

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS
6.3 VOLTS
600 MA.

LIMITS OF APPLIED CURRENT
6.3 ± 0.6 VOLTS

MAXIMUM HEATER-CATHODE VOLTAGE
± 450 VOLTS

MAXIMUM RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

PEAK INVERSE VOLTAGE
1,375 VOLTS

STEADY-STATE PEAK PLATE CURRENT (EACH PLATE)
230 MA.

TRANSIENT PEAK PLATE CURRENT (EACH PLATE)
750 MA.

OUTPUT CURRENT (DC) (TOTAL)
75 MA.

SPECIAL TESTS AND RATINGS

IMPACT ACCELERATION
VIBRATIONAL ACCELERATION FOR EXTENDED PERIODS
MECHANICAL RESONANCE
ALTITUDE RATING

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CHARACTERISTICS AND TYPICAL OPERATION

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value 1</th>
<th>Value 2</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate Voltage (AC) per plate</td>
<td>325</td>
<td>450</td>
<td>Volts RMS</td>
</tr>
<tr>
<td>Filter Input Capacitor</td>
<td>8</td>
<td>...</td>
<td>μF</td>
</tr>
<tr>
<td>Filter Input Choke (Min.)</td>
<td>...</td>
<td>10</td>
<td>Henrys</td>
</tr>
<tr>
<td>Effective Plate Supply Impedance A</td>
<td>150</td>
<td>...</td>
<td>Ohms</td>
</tr>
<tr>
<td>Each Plate</td>
<td>70</td>
<td>70</td>
<td>MA.</td>
</tr>
<tr>
<td>Output Current (DC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tube Voltage Drop @ 70 mA DC per plate</td>
<td>22</td>
<td>...</td>
<td>Volts</td>
</tr>
</tbody>
</table>

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When filter condensers larger than 40 μF are used, it may be necessary to increase the specified value of plate supply impedance.

![Graph showing relationship between DC plate volts and plate milliamperes per plate.](image)