The 6X5-GT is a full-wave high-vacuum rectifier designed for use in the power supply of automobile and a-c radio receivers.

**GENERAL**

Cathode - Coated Unipotential  
Heater Voltage, A-C or D-C .......................... 6.3 Volts  
Heater Current ........................................ 0.6 Ampere  
Envelope - T-9, Glass  
Base - B5-82 or B6-B, Intermediate Shell Octal  
or B5-85 or B6-60, Short Intermediate Shell Octal  
Mounting Position - Any

**MAXIMUM RATINGS**

**DESIGN-CENTER VALUES**

Peak Inverse Plate Voltage .......................... 1250 Volts  
Steady-State Peak Plate Current per Plate ........ 210 Milliamperes  
D-C Output Current .................................. 70 Milliamperes  
Heater-Cathode Voltage  
Heater Positive with Respect to Cathode ........ 450 Volts  
Heater Negative with Respect to Cathode ........ 450 Volts

**CHARACTERISTICS AND TYPICAL OPERATION**

**FULL-WAVE RECTIFIER**

<table>
<thead>
<tr>
<th>Capacitor Input Filter</th>
<th>Choke Input Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-C Plate-Supply Voltage per Plate, RMS ......</td>
<td>325</td>
</tr>
<tr>
<td>Filter Input Capacitor ................................</td>
<td>4</td>
</tr>
<tr>
<td>Filter Input Choke ...................................</td>
<td>---</td>
</tr>
<tr>
<td>Total Effective Plate-Supply Impedance per Plate</td>
<td>150</td>
</tr>
<tr>
<td>D-C Output Current ..................................</td>
<td>70</td>
</tr>
</tbody>
</table>
| D-C Output Voltage at Filter Input  
For D-C Output Current of 35 Milliamperes ...... | 405 | 385 | Volts |
| For D-C Output Current of 70 Milliamperes ...... | 370 | 390 | Volts |

Tube Voltage Drop  
At 70 Milliamperes D-C per Plate .................. 22 Volts

* Pin 1 omitted on bases B5-82 and B5-85.

**PHYSICAL DIMENSIONS**

**TERMINAL CONNECTIONS**

Pin 1 - No Connection*  
Pin 2 - Heater  
Pin 3 - Plate Number 2  
Pin 5 - Plate Number 1  
Pin 7 - Heater  
Pin 8 - Cathode

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Supersedes ET-1357A dated 5-50
AVERAGE PLATE CHARACTERISTICS

\[ E_t = 6.3 \text{ VOLTS} \]