The 25U4GT is a half wave rectifier especially designed for use as a damper diode in AC/DC television circuits. The electrical characteristics, except for the heater rating are similar to the 6U4GT.

**MECHANICAL DATA.**

- Coated unipotential cathode
- Outline drawing ............... 9-13
- Base .............................. B.6,8
- Maximum Diameter .................. 1.9/32" 
- Maximum Overall Length ............... 3.3/8" 
- Maximum Seated Height ............... 2.13/16" 
- Pin Connections ........................ Basing Number 46G

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No connection</td>
</tr>
<tr>
<td>2</td>
<td>No connection</td>
</tr>
<tr>
<td>3</td>
<td>Cathode</td>
</tr>
<tr>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>Anode</td>
</tr>
<tr>
<td>6</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>Heater</td>
</tr>
<tr>
<td>8</td>
<td>Heater</td>
</tr>
</tbody>
</table>

Mounting Position: any

**ELECTRICAL DATA.**

- Direct Inter-electrode Capacitance.
  - Cap. heater-cathode .................. 8.5 µuf

**RATINGS.** (absolute maximum values)

- Heater Voltage (ac or dc) .................. 25 volts
- Maximum heater-cathode voltage.
  - (a) Mains Rectifier
    - Heater positive with respect to cathode .... 385 volts
    - Heater negative with respect to cathode .......... 550 volts

Page 1 of 2
(b) Damper Diode
Heater positive with respect to cathode ..... 335 volts
Heater negative with respect to cathode ..... 3250 volts

Maximum Peak Inverse Voltage

(a) Mains Rectifier ......................... 1375 volts
(b) Damper Diode ........................... 3850 volts

Maximum A.C. plate voltage (RMS) .................. 375 volts
Maximum steady state peak plate current .................................. 860 mA
Maximum transient peak plate current .......................... 3.85 amps
(duration not exceeding 0.2 sec.)
Tube voltage drop (measured with tube conducting 250 mA) ..... 21 volts
Maximum D.C. output current .................................... 138 mA
Minimum total effective plate supply impedance ................. 14.5 ohms

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS.

Heater voltage ........................................ 25 volts
Heater current ..................................... 3 amps
A.C. Plate voltage (RMS) ................................ 350 volts
Filter Input capacitor .................................. 20 µF
Total effective plate supply impedance ................. 14.5 ohms
D.C. output current .................................. 125 mA
D.C. output potential .................................. 355 volts

This rating is applicable when the duty cycle of the voltage pulse
does not exceed 15% of one scanning cycle and its duration is
limited to 10 microseconds.