**PENTODE**

**MINIATURE TYPE**

**COATED UNIPOTENTIAL CATHODE**

**HEATER**

3.15 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION

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**DIRECT INTERELECTRODE CAPACITANCES**

<table>
<thead>
<tr>
<th>Without External Shield</th>
<th>Grid to Plate (Max.)</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.030 microfarads</td>
<td>6.5</td>
<td>1.9</td>
</tr>
</tbody>
</table>

**RATINGS**

**INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM**

<table>
<thead>
<tr>
<th>Heater Voltage</th>
<th>3.15 Volts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Plate Voltage</td>
<td>300 Volts</td>
</tr>
<tr>
<td>Maximum Grid #2 Supply Voltage</td>
<td>300 Volts</td>
</tr>
<tr>
<td>Maximum Grid #2 Voltage</td>
<td>See Screen Rating Chart</td>
</tr>
<tr>
<td>Maximum Positive DC Grid #1 Voltage</td>
<td>0 Volts</td>
</tr>
<tr>
<td>Maximum Plate Dissipation</td>
<td>2.0 Watts</td>
</tr>
<tr>
<td>Maximum Grid #2 Dissipation</td>
<td>0.5 Watts</td>
</tr>
</tbody>
</table>

**Maximum Heater-Cathode Voltage:**

- Heater Positive with respect to Cathode DC Component: 100 Volts
- Total DC and Peak: 200 Volts
- Heater Negative with respect to Cathode DC Component: 200 Volts
- Total DC and Peak: 200 Volts

**Heater Warm-Up Time (Approx.)**

11.0 Seconds

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A heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated voltage after applying 4 times rated heater voltage to a circuit consisting of the tube heater in series with a resistance of value 3 times the nominal heater operating resistance.

**CONTINUED ON FOLLOWING PAGE**
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A1 AMPLIFIER

HEATER VOLTAGE 3.15 VOLTS
HEATER CURRENT 0.6 AMP.
PLATE VOLTAGE 125 VOLTS
SCREEN VOLTAGE 125 VOLTS
* GRID #1 SUPPLY VOLTAGE -1.0 VOLTS
GRID #1 RESISTOR (BYPASSED) 1.0 MEGOHMS
PLATE RESISTANCE (APPROX.) 0.3 MEGOHMS
TRANSCONDUCTANCE 7600  μMHOs
PLATE CURRENT 11 MA.
SCREEN CURRENT 2.8 MA.
GRID #1 VOLTAGE (APPROX.) Ib = 35 μAMPS.

SIMILAR TYPE REFERENCE. Except for heater ratings, the 3085 is identical to the 4085 and the 6085.

→ INDICATES A CHANGE.
* INDICATES AN ADDITION.
3CE5

$E_f = 3.15$ Volts
$E_b = 125$ Volts

$R_{g1} = 0$ Ohms
$R_{g1} = 1.0$ Megohms

GRID #1 SUPPLY VOLTS

PLATE CURRENT - MILLIAMPERES

SCREEN CURRENT - MILLIAMPERES

GRID #1 SUPPLY VOLTS
3CE5

\[ E_f = 3.15 \text{ Volts} \]
\[ E_b = 125 \text{ Volts} \]

- - - - - \( R_{g1} = 0 \text{ Ohms} \)
- - - - - \( R_{g1} = 1.0 \text{ Megohms} \) (BYPASSED)