The Toshiba 5734A is a heater-cathode type medium-mu triode of micro metal miniature construction with metal shell and ceramic stem designed primarily for use as mechano-electronic transducer in many industrial applications. The 5734A features an actuating stylus which related to the plate shaft, and the angular displacement of the plate shaft changes the distance between the fixed grid and the plate and results in a change in the plate current.

GENERAL DATA

ELECTRICAL:
Cathode: Coated unipotential
Heater voltage (AC or DC) ................. 6.3 V
Heater current ............................ 0.15 A

MECHANICAL:
Maximum over all length ..................... 0.925"
(excluding flexible lead)
Maximum diameter .......................... 0.328"
Bulb ........................................ Metal shell
Operating position ......................... Any

MAXIMUM RATINGS; Design-center values:
DC plate supply voltage ..................... 300 max. V
DC plate current ............................ 5 max. mA
Plate dissipation ........................... 0.4 max. W
Heater-cathode voltage
Heater positive, total dc and peak ......... 90 max. V
Heater negative, total dc and peak ........ 90 max. V
Angular deflection of plate shaft .......... ±0.5 max. Degree
Bulb temperature at hottest point on bulb surface ....................... 300 max. °C
TYPICAL OPERATION AND CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC plate supply voltage</td>
<td>300 V</td>
</tr>
<tr>
<td>DC grid voltage</td>
<td>0 V</td>
</tr>
<tr>
<td>Amplification factor</td>
<td>20</td>
</tr>
<tr>
<td>Plate resistance</td>
<td>72 KΩ</td>
</tr>
<tr>
<td>Transconductance</td>
<td>275 µU</td>
</tr>
<tr>
<td>DC plate current</td>
<td>1.5 mA</td>
</tr>
<tr>
<td>Load resistance</td>
<td>75 KΩ</td>
</tr>
<tr>
<td>Deflection sensitivity</td>
<td>{ 40 V/degree, 2300 V/radian }</td>
</tr>
</tbody>
</table>

Moment of inertia of plate     | 3.4 milligram cm |
Rotational compliance of diaphragm | { 0.013x10⁻³ radian/dyne cm, 0.075 degree/gram cm } |

AVERAGE CHARACTERISTICS

![Graph showing average characteristics](image-url)
5734A
DIMENSIONAL OUTLINE:
Dimensions in Inches

5734A
BASING DIAGRAM:
Bottom View

Pin 4: Heater    Pin 5: Grid    Pin 6: Heater
Pin 7: Cathode: Internal Shield  P : Plate

All inquiries as to the data should be addressed to Tube and Semiconductor Division,
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