TUNG-SOL

PENTODE
MINIATURE TYPE

COATED UNIPO TENTIAL CATHODE
FOR
IF AND RF APPLICATIONS IN
T.V. RECEIVERS
ANY MOUNTING POSITION

GLASS BULB
MINIATURE BUTTON
7 PIN BASE ET-1
OUTLINE DRAWING
JEDEC 5-2

THE 6CF6 IS A SHARP CUT-OFF PENTODE ESPECIALLY DESIGNED FOR USE IN GAIN CONTROLLED VIDEO IF STAGES OPERATING AT FREQUENCIES IN THE ORDER OF 40 MEGACYCLES. IT IS ALSO WELL SUIT ED FOR USE AS AN RF AMPLIFIER IN VHF TELEVISION TUNERS. IT FEATURES CONTROLLED PLATE-CURRENT CUT-OFF AND VERY HIGH TRANSCONDUCTANCE COMBINED WITH LOW CAPACITANCE VALUES.

DIRECT INTERELECTRODE CAPACITANCES

<table>
<thead>
<tr>
<th>WITH SHIELD</th>
<th>WITHOUT SHIELD</th>
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<tbody>
<tr>
<td>GRID TO PLATE: (G1 TO P) MAX.</td>
<td>0.015</td>
</tr>
<tr>
<td>INPUT: G1 TO (H<em>K</em>G2<em>G3</em>F.S.)</td>
<td>6.5</td>
</tr>
<tr>
<td>OUTPUT: P TO (H<em>K</em>G2<em>G3</em>F.S.)</td>
<td>3.0</td>
</tr>
</tbody>
</table>

*EXTERNAL SHIELD 316 CONNECTED TO PIN 2.*

HEATER CHARACTERISTICS AND RATINGS

DESI G NED M A XIMUM VA LUES - SEE EIA STANDA RD RS-239

AVERAGE CHARACTERISTICS
6.3 VOLTS
300 MA.

HEATER SUPPLY LIMITS:
VOLTAGE OPERATION
6.3±0.6 VOLTS

MAXIMUM HEATER CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE
TOTAL DC AND PEAK ➔ 200 VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE
DC ➔ 100 VOLTS
TOTAL DC AND PEAK ➔ 200 VOLTS

--- INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE
CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE ETA STANDARD RS-239

PLATE VOLTAGE 350 VOLTS
GRID #2 VOLTAGE SEE RATING CHART
GRID #2 SUPPLY VOLTAGE 330 VOLTS
PLATE DISSIPATION 2.5 WATTS
GRID #2 DISSIPATION 0.55 WATT
POSITIVE DC GRID #1 VOLTAGE 0 VOLTS

→ TYPICAL OPERATING CHARACTERISTICS

CLASS A1 AMPLIFIER

PLATE VOLTAGE 125 VOLTS
GRID #2 VOLTAGE 125 VOLTS
GRID #3 VOLTAGE PIN 7 CONNECTED TO PIN 2 AT SOCKET
CATHODE BIAS RESISTOR 96 OHMS
PLATE RESISTANCE (APPROX.) 0.3 MEGOHM
TRANSconductance 7800 MMHOS
PLATE CURRENT 12.5 MA.
GRID #2 CURRENT 5.7 MA.
GRID #1 VOLTAGE (APPROX.) FOR IB = 20 MA.
PLATE CURRENT AT ECF = 3V., RE = 0 6.0 VOLTS
PLATE CURRENT AT ECF = 3V., RE = 0 2.2 MA.

→ INDICATES A CHANGE.

6CF6 PENTODE
Ei = 6.3 Volts
Ec2 = 150 Volts