TUNG-SOL

TRIODE PENTODE

MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

FOR USE AS A SYNC SEPARATOR

AND VIDEO AMPLIFIER

ANY MOUNTING POSITION

GLASS BULB

MINIATURE BUTTON

9 PIN BASE E9-1

OUTLINE DRAWING

JEDEC 6-3

BOTTOM VIEW

BASING DIAGRAM

JEDEC 9DX

THE 6LF8 IS A SHARP CUT-OFF PENTODE AND A HIGH MU TRIODE FEATURING A CONTROLLED PLATE KNEE CHARACTERISTIC FOR THE PENTODE SECTION. THE TRIODE SECTION MAY BE USED AS A SYNC SEPARATOR WHILE THE PENTODE SECTION IS DESIGNED TO SERVE AS A VIDEO AMPLIFIER.

THE 6LF8 IS SIMILAR TO THE 6AQ8A.

DIRECT INTERELECTRODE CAPACITANCES

<table>
<thead>
<tr>
<th></th>
<th>WITH SHIELD</th>
<th>WITHOUT SHIELD</th>
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</thead>
<tbody>
<tr>
<td>PENTODE GRID 1 TO PENTODE PLATE (PG1 TO PP) MAX.</td>
<td>0.05</td>
<td>0.06 pf</td>
</tr>
<tr>
<td>PENTODE INPUT: PG TO (H+PG2+PK,G3,I.S.)</td>
<td>10</td>
<td>10 pf</td>
</tr>
<tr>
<td>PENTODE OUTPUT: PP TO (H+ PK,G3,I.S.)</td>
<td>4.5</td>
<td>3.6 pf</td>
</tr>
<tr>
<td>TRIODE GRID TO TRIODE PLATE; (TG TO TP)</td>
<td>2.2</td>
<td>2.2 pf</td>
</tr>
<tr>
<td>TRIODE INPUT: TG TO (H+TK=PK, PG3, I.S.)</td>
<td>3.4</td>
<td>3.2 pf</td>
</tr>
<tr>
<td>TRIODE OUTPUT: TP TO (H+TK=PK, PG3, I.S.)</td>
<td>3.0</td>
<td>1.8 pf</td>
</tr>
<tr>
<td>PENTODE GRID 1 TO TRIODE PLATE; (PG1 TO TP) MAX.</td>
<td>.025</td>
<td>.008 pf</td>
</tr>
<tr>
<td>PENTODE PLATE TO TRIODE PLATE; (PP TO TP) MAX.</td>
<td>.125</td>
<td>.150 pf</td>
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A EXTERNAL SHIELD 315 CONNECTED TO PIN 4 AND PIN 5.

CONTINUED ON FOLLOWING PAGE

--- INDICATES A CHANGE.
HEATER CHARACTERISTICS AND RATINGS

CONTINUED FROM PRECEDING PAGE

AVERAGE CHARACTERISTICS
HEATER WARM-UP TIME
LIMITS OF APPLIED VOLTAGE - AC OR DC
LIMITS OF SUPPLIED CURRENT - AC OR DC

MAXIMUM HEATER-CATHODE VOLTAGE:
HEATER NEGATIVE WITH RESPECT TO CATHODE
TOTAL DC AND PEAK
HEATER POSITIVE WITH RESPECT TO CATHODE
DC
TOTAL DC AND PEAK

MAXIMUM RATINGS

PLATE VOLTAGE
GRID 2 VOLTAGE
GRID 2 SUPPLY VOLTAGE
PLATE DISSIPATION
GRID 2 DISSIPATION UP TO 165 VOLTS
POSITIVE DC GRID 1 VOLTAGE
NEGATIVE DC GRID 1 VOLTAGE
GRID 1 CIRCUIT RESISTANCE
FOR CATHODE-BIAS OPERATION
FOR FIXED BIAS OPERATION

TYPICAL OPERATING CHARACTERISTICS
CLASS A1 AMPLIFIER

TRANSCONDUCTANCE
AMPLIFICATION FACTOR
PLATE RESISTANCE (APPROX.)
GRID 1 VOLTAGE (APPROX.)
FOR Ic = 20 μA

MA
SECONDS
VOLTS
MA.
VOLTS
WATTS
VOLTS
VOLTS
MEGOHM
MEGOHM
VOLTS
VOLTS
MA.
MA.
MA.
μMOS
KOMOS
VOLTS