TRIODE
SUBMINIATURE

FOR APPLICATIONS REQUIRING
ECONOMY OF SPACE, WEIGHT
AND BATTERY DRAIN

ANY MOUNTING POSITION

GLASS BULB
RED DOT IS
ADJACENT TO LEAD 1
IN LINE BASE
OUTLINE DRAWING
JEDEC 2-1

THE 7246 IS A 500 MEGACYCLE, FILAMENT TYPE TRIODE IN THE 4 PIN SUBMINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A HIGH FREQUENCY OSCILLATOR, CLASS C AMPLIFIER, SUPERREGENERATIVE DETECTOR, FREQUENCY MULTIPLIER OR MIXER. THE FLEXIBLE TERMINAL LEADS MAY BE SOLDERED OR WELDED DIRECTLY TO THE TERMINALS OF CIRCUIT COMPONENTS. STANDARD SUBMINIATURE SOCKETS MAY BE USED BY CUTTING THE LEADS TO A SUITABLE LENGTH.

DIRECT INTERELECTRODE CAPACITANCES

<table>
<thead>
<tr>
<th>Grid to Plate</th>
<th>1.5 pf</th>
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</thead>
<tbody>
<tr>
<td>Input</td>
<td>1.6 pf</td>
</tr>
<tr>
<td>Output</td>
<td>1.9 pf</td>
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</tbody>
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HEATER CHARACTERISTICS AND RATINGS

AVERAGE CHARACTERISTICS
1.25 VOLTS 150 MA.

HEATER SUPPLY LIMITS:
FILAMENT OPERATION
1.25x1.15 VOLTS

MAXIMUM RATINGS

PLATE VOLTAGE 150 VOLTS
PLATE CURRENT 7.5 MA.
GRID CURRENT 1.2 MA.
GRID VOLTAGE -50 VOLTS
PLATE DISSIPATION 0.7 WATTS

CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATING CHARACTERISTICS
CLASS A₁ AMPLIFIER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>PLATE VOLTAGE</td>
<td>105 V</td>
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<tr>
<td>GRID VOLTAGE</td>
<td>-2.5 V</td>
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<tr>
<td>TRANSCONDUCTANCE</td>
<td>2700 mΩ</td>
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<tr>
<td>AMPLIFICATION FACTOR</td>
<td>22</td>
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<tr>
<td>PLATE CURRENT</td>
<td>4.5 mA</td>
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7246

$E_f = 1.25$ Volts DC