THE 1A3 IS AN INDIRECTLY HEATED DIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS PARTICULARLY USEFUL AS A DISCRIMINATOR TUBE IN PORTABLE FM RECEIVERS, AND IN PORTABLE HF MEASURING EQUIPMENT. THE RESONANT FREQUENCY OF THE 1A3 IS APPROXIMATELY 1000 MC/S.

DIRECT INTERELECTRODE CAPACITANCES
WITOUT EXTERNAL SHIELD

PLATE TO CATHODE (P TO K) 0.4 µf
PLATE TO HEATER (P TO H) 0.8 µf
HEATER TO CATHODE (H TO K) 0.6 µf

HEATER CHARACTERISTICS AND RATINGS
DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS 1.4 VOLT 150 MA.
LIMITS OF APPLIED VOLTAGE 1.4±0.2 VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE, DC: 140 VOLTS

RATINGS - RECTIFIER SERVICE
DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

MAXIMUM PEAK INVERSE PLATE VOLTAGE, 330 VOLTS
MAXIMUM PEAK PLATE CURRENT 5 MA.
MAXIMUM DC OUTPUT CURRENT 0.5 MA.

CONTINUED ON FOLLOWING PAGE
TYPICAL OPERATION WITH CONDENSER-INPUT FILTER

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>AC PLATE SUPPLY VOLTAGE (RMS)</td>
<td>117 VOLTS</td>
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<tr>
<td>FILTER INPUT CONDENSER</td>
<td>2 µF</td>
</tr>
<tr>
<td>MIN. TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE</td>
<td>0 OHMS</td>
</tr>
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