### MAZDA 19G3

**HIGH VACUUM HALF-WAVE RECTIFIER**

*Indirectly heated*

<table>
<thead>
<tr>
<th><strong>RATING</strong></th>
<th><strong>1,500 c.p.s.</strong></th>
<th><strong>50 c.p.s.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heater Voltage (volts)</td>
<td>$V_h$</td>
<td>4.0</td>
</tr>
<tr>
<td>Heater Current (amps)</td>
<td>$I_h$</td>
<td>1.4</td>
</tr>
<tr>
<td>Maximum Peak Inverse Voltage-No Load (volts)</td>
<td></td>
<td>P.I.V.(max)</td>
</tr>
<tr>
<td>Maximum Peak Inverse Voltage-On Load (volts)</td>
<td></td>
<td>P.I.V.(max)</td>
</tr>
<tr>
<td>Maximum Mean Current (mA)</td>
<td>$I_{av}$</td>
<td>75</td>
</tr>
<tr>
<td>Maximum Peak Current (mA)</td>
<td>$I_{pk}$</td>
<td>375</td>
</tr>
<tr>
<td>Minimum Surge Limiting Resistance (ohms)</td>
<td></td>
<td>1,800</td>
</tr>
</tbody>
</table>

- The Heater must be switched on for 15 seconds before the Anode Voltage is applied.

- This resistance may be obtained in the distributed resistance of the transformer.

- All Maximum Ratings are absolute values not design centres.

### DIMENSIONS

- Maximum Overall Length (mm) | 100
- Maximum Diameter (mm) | 32
- Maximum Bulb Diameter (mm) | 29
- Maximum Seated Height (mm) | 87
- Approximate Nett Weight (ozs) | 1\ ½
- Approximate Packed Weight (ozs) | 2\ ½

**MOUNTING POSITION** - Unrestricted

October 1948

**VALVE & CRT DIVISION**

**THE EDISON SWAN ELECTRIC COMPANY LTD.**
MAZDA
19G3
HIGH VACUUM HALF-WAVE RECTIFIER
Indirectly heated

CAP  Miniature
BULB Clear
BASE International Octal (IO8)

Viewed from free end of pins.

CONNEXIONS
Pin 1  Blank  *
Pin 2  Heater/Cathode         hk
Pin 3  Blank  *
Pin 4  Blank  *
Pin 5  Blank  *
Pin 6  Blank  *
Pin 7  Heater         h
Pin 8  Blank  *
Top Cap  Anode         a

* Blank pins in Socket must be left free.
MAZDA
19G3
HIGH VACUUM HALF-WAVE RECTIFIER
Indirectly heated

AVERAGE CHARACTERISTIC CURVE

ANODE CURRENT IN mA

ANODE VOLTS

October 1948
VALVE & CRT DIVISION
SIEMENS EDISON SWAN LIMITED