

**MAZDA****6.F.11****6.F.11****SCREENED R.F. PENTODE****Indirectly heated — for parallel operation****RATING**

|                                                |                 |       |
|------------------------------------------------|-----------------|-------|
| Heater Voltage (volts)                         | $V_h$           | 6.3   |
| Heater Current (amps)                          | $I_h$           | 0.2   |
| Maximum Anode Voltage (volts)                  | $V_a(\max)$     | 250   |
| Maximum Screen Voltage (volts)                 | $V_{g2}(\max)$  | 150   |
| Maximum Cathode Current (mA)                   | $I_{k(av)\max}$ | 10    |
| Mutual Conductance (mA/V)                      | $g_m$           | * 2.2 |
| Anode Impedance (megohms)                      | $r_a$           | * 2.8 |
| Inner $\mu$                                    | $\mu_{g1-g2}$   | * 26  |
| Maximum Potential Heater/Cathode<br>(volts DC) | $V_{h-k}(\max)$ | 150   |

\* Taken at  $V_a = 250v$ ;  $V_{g2} = 100v$ ;  $V_{g1} = 1.8v$ .

**INTER-ELECTRODE CAPACITANCES**

|                         |            | $\dagger$ | $q$  |
|-------------------------|------------|-----------|------|
| Anode/Earth ( $\mu F$ ) | $c_{out}$  | 6.7       | 8.2  |
| Anode/Grid ( $\mu F$ )  | $c_{a-g1}$ | .0039     | .004 |
| Grid/Earth ( $\mu F$ )  | $c_{in}$   | 5.3       | 6.8  |

$\dagger$  Inter-electrode capacitances with holder capacitance balanced out.

$q$  Including a Benjamin B.8.A. holder at a frequency of 1 Mc/s with vertical screen fitted to holder between pins 3-4 and 7-8.

"Earth" denotes the remaining earthy potential electrodes, shields and heater joined to cathode.

**DIMENSIONS**

|                                 |               |
|---------------------------------|---------------|
| Maximum Overall Length (mm)     | 67            |
| Maximum Diameter (mm)           | 22            |
| Maximum Seated Height (mm)      | 54            |
| Radius Over Location Key (mm)   | 12.25         |
| Approximate Nett Weight (ozs)   | $\frac{3}{4}$ |
| Approximate Packed Weight (ozs) | 1             |

**MOUNTING POSITION** - Unrestricted

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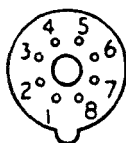
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## SCREENED R.F. PENTODE

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BULB Clear

BASE B.8.A.



Viewed from free end of pins.

### CONNEXIONS

|       |                 |    |
|-------|-----------------|----|
| Pin 1 | Heater          | h  |
| Pin 2 | Anode           | a  |
| Pin 3 | Internal Shield | s  |
| Pin 4 | Suppressor Grid | g3 |
| Pin 5 | Screen Grid     | g2 |
| Pin 6 | Control Grid    | g1 |
| Pin 7 | Cathode         | k  |
| Pin 8 | Heater          | h  |

NOTE: Pin 8 should preferably be connected to "earth" potential.

In use pins 3 and 4 should be joined and earthed.

**MAZDA**

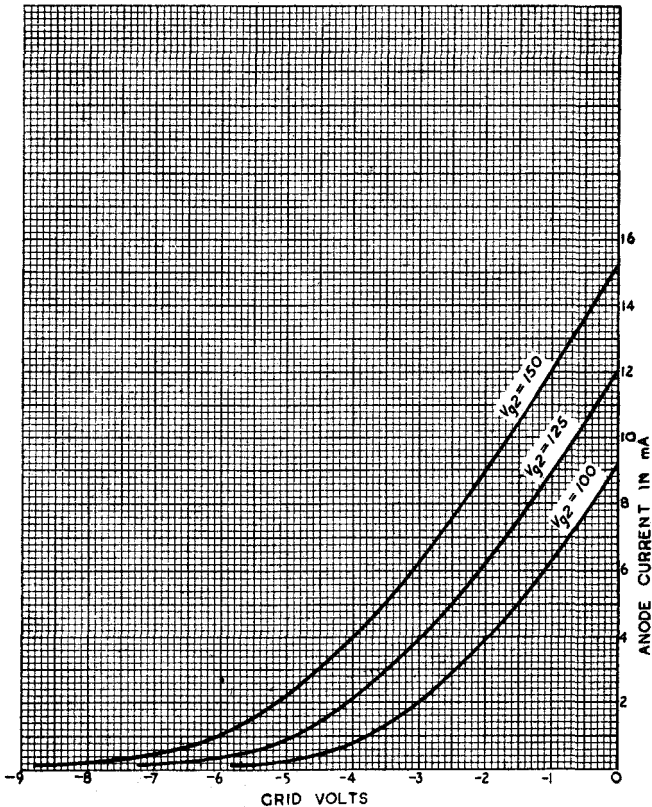
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**AVERAGE CHARACTERISTIC CURVES**

*Curves taken at  $V_0 = 250$*



August 1948

Issue 1/2

RADIO DIVISION

THE EDISON SWAN ELECTRIC COMPANY LTD.

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**AVERAGE CHARACTERISTIC CURVES**

