

# MAZDA

6.F.11

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## 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 (volts DC)	$V_{h-k}(\max)$	150

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

### INTER-ELECTRODE CAPACITANCES

		†	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

† 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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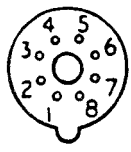
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BULB Clear

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.

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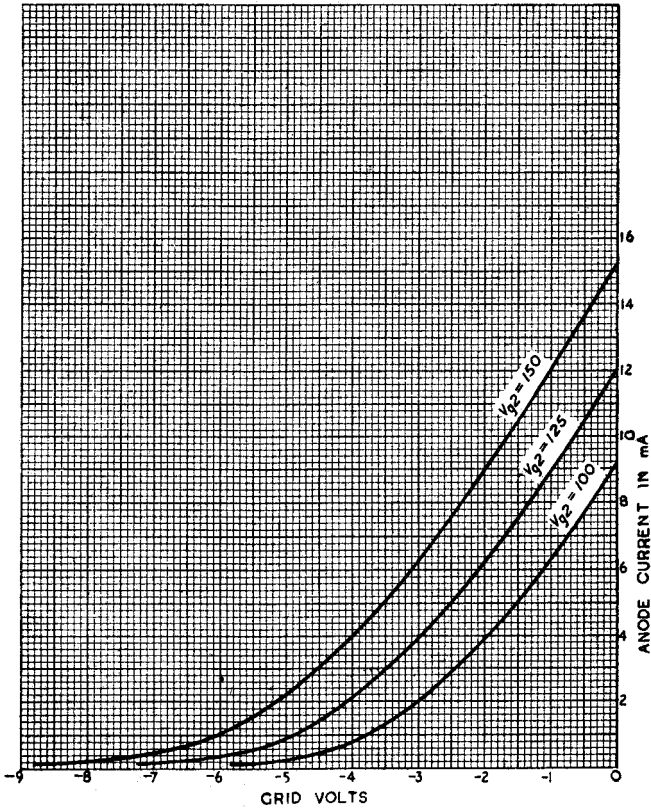
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**AVERAGE CHARACTERISTIC CURVES**

*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

