

6.F.11

MAZDA

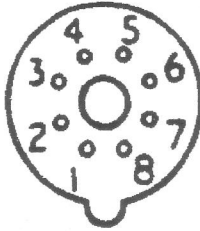
6.F.11

SCREENED R.F. PENTODE

Indirectly heated — for parallel operation

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

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 μ	μ_{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

		†	‡
Anode/Earth ($\mu\mu F$)	C_{out}	6.7	8.2
Anode/Grid ($\mu\mu F$)	C_{a-g1}	.0039	.004
Grid/Earth ($\mu\mu F$)	C_{in}	5.3	6.8

† Inter-electrode capacitances with holder capacitance balanced out.

‡ 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

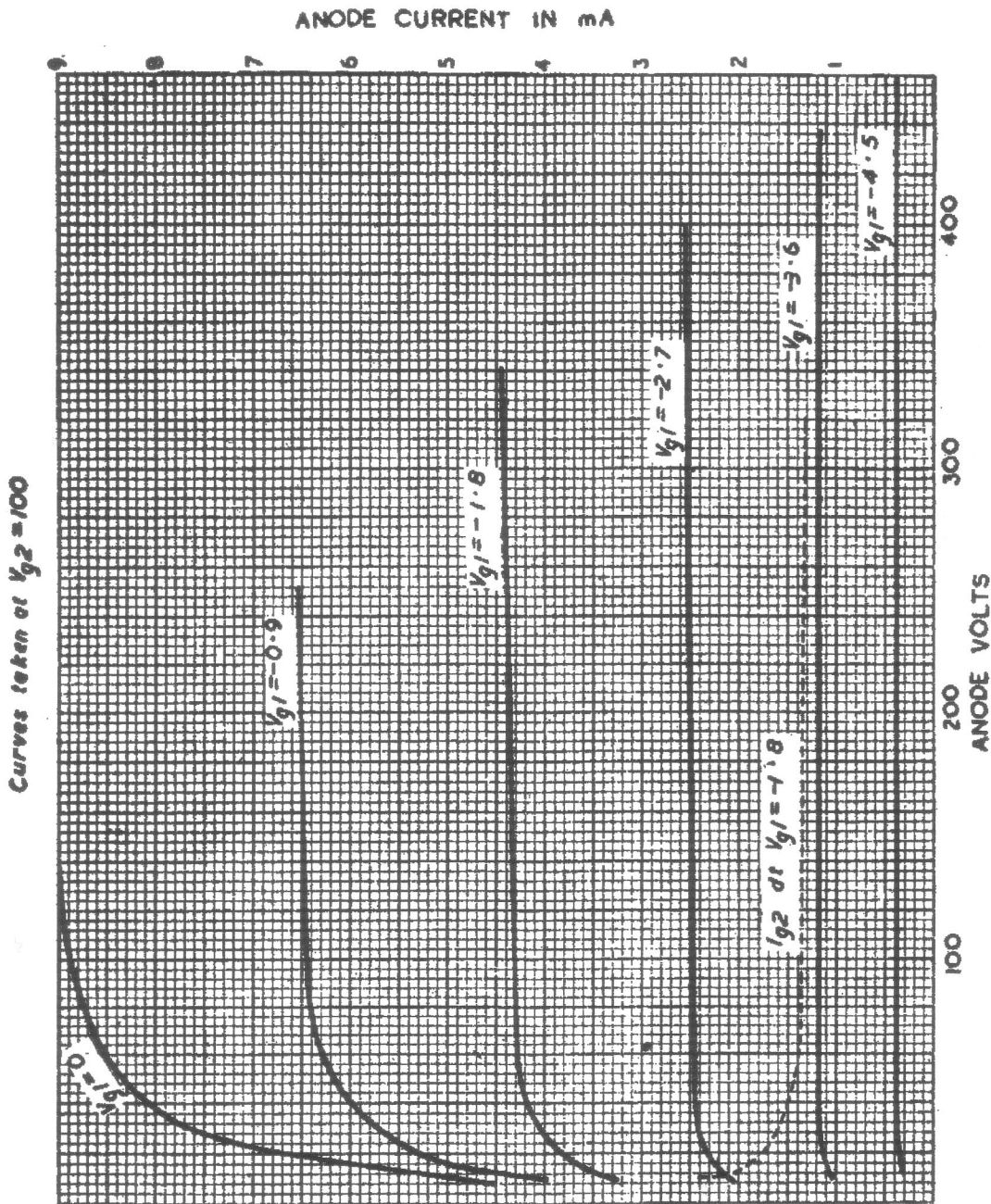
6.F.11

MAZDA

6.F.11

SCREENED R.F. PENTODE
Indirectly heated — for parallel operation

AVERAGE CHARACTERISTIC CURVES



MAZDA

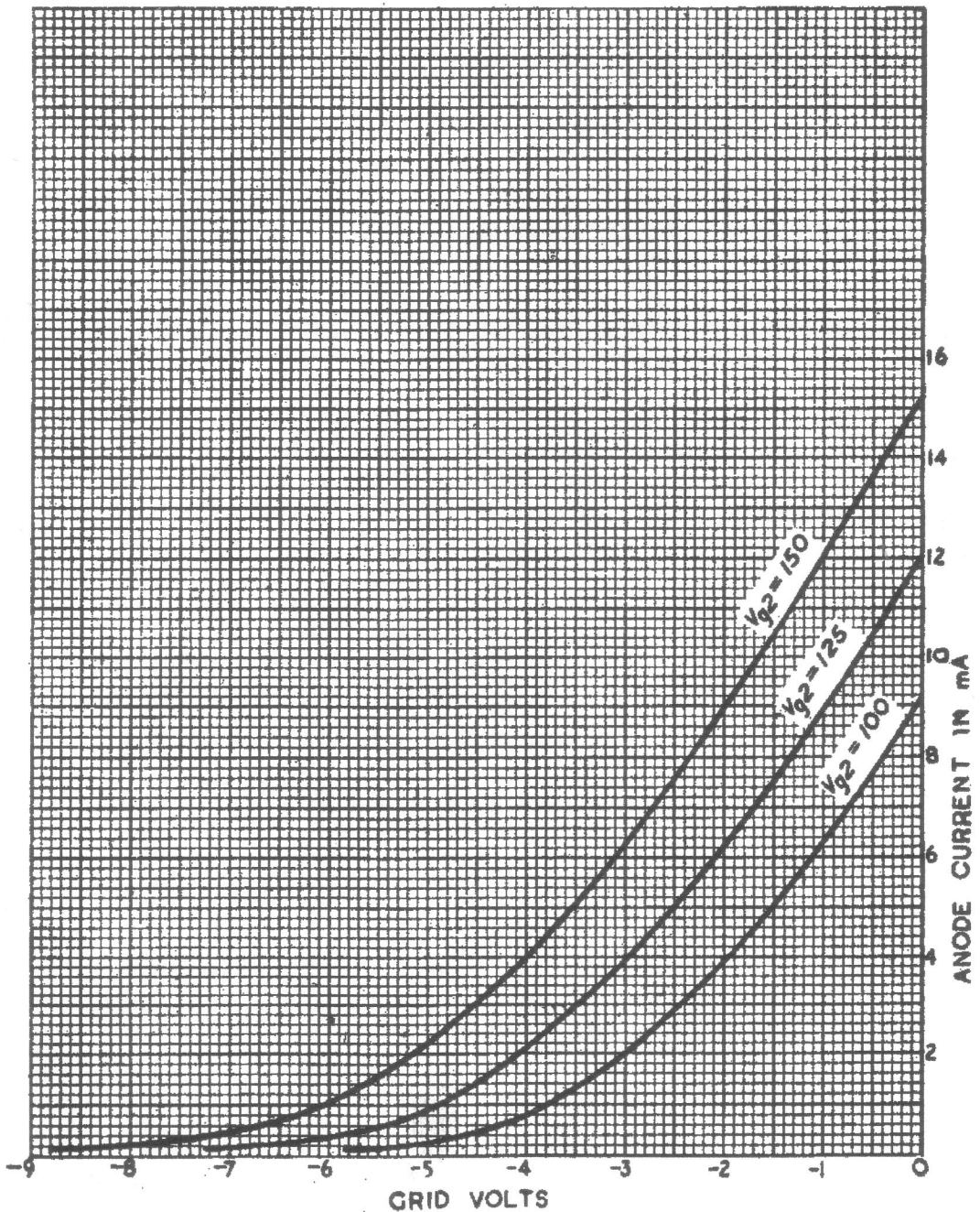
6.F.11

6.F.11

SCREENED R.F. PENTODE
Indirectly heated – for parallel operation

AVERAGE CHARACTERISTIC CURVES

Curves taken at $V_0 = 250$



August 1948

Issue 1/2

RADIO DIVISION

THE EDISON SWAN ELECTRIC COMPANY LTD.