

MAZDA

6F33

SCREENED R.F. PENTODE

Indirectly heated

6F33

GENERAL

The 6F.33 has a short cut-off Suppressor Grid characteristic which makes it particularly suitable for use in Modulator, Variable Reactance and Timing Circuits. A diode has been tied to the suppressor in order to prevent "blocking" when this grid is driven positive.

RATING

Heater Voltage (volts)	V_h	6.3
Heater Current (amps)	I_h	0.35
Maximum Anode Voltage (volts)	$V_a(\max)$	250
Maximum Screen Voltage (volts)	$V_{g2}(\max)$	250
Mutual Conductance (mA/V)	g_m	4.35
Inner μ μ	$\mu_{g1 g2}$	38
Maximum Anode Dissipation (watts)	$P_a(\max)$	2.5
Maximum Screen Dissipation (watts)	P_{g2}	0.8
Maximum Potential Heater/Cathode (volts DC)	$V_{h-k}(\max)$	100

* Taken at $V_a = 200v$; $V_{g2} = 100v$;
 $V_{g1} = -1.5v$; $V_{g3} = 0v$.

μ 1.0. $\frac{\delta V_{g2}}{\delta V_{g1}}$ with I_a constant.

INTER-ELECTRODE CAPACITANCES

	(μF)	δ	δ
Anode/Earth	c_{out}	4.5	5.6
Anode/Control Grid	c_{a-g1}	0.01	0.012
Control Grid/Earth	c_{in}	7.3	8.4
Suppressor Grid/Earth	c_{g3-E}	10.0	11.1

δ Measured with Benjamin cylindrical screen type 75/832, but holder capacity balanced out.

δ Including capacity of Benjamin B7G holder type 75/833 and screen type 75/832.

DIMENSIONS

Maximum Overall Length	(mm)	54
Maximum Diameter	(mm)	19
Maximum Seated Height	(mm)	48.6
Approximate Nett Weight	(ozs)	\ddagger
Approximate Packed Weight	(ozs)	\ddagger

MOUNTING POSITION - Unrestricted.

Indicates a change

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BULE Clear

BASE B.7.G



Viewed from free end of pins

CONNECTIONS

Pin 1	Control Grid	g1
Pin 2	Cathode	k
Pin 3	Heater	h
Pin 4	Heater	h
Pin 5	Anode	a
Pin 6	Suppressor Grid	g3
Pin 7	Screen Grid	g2

EDISWAN

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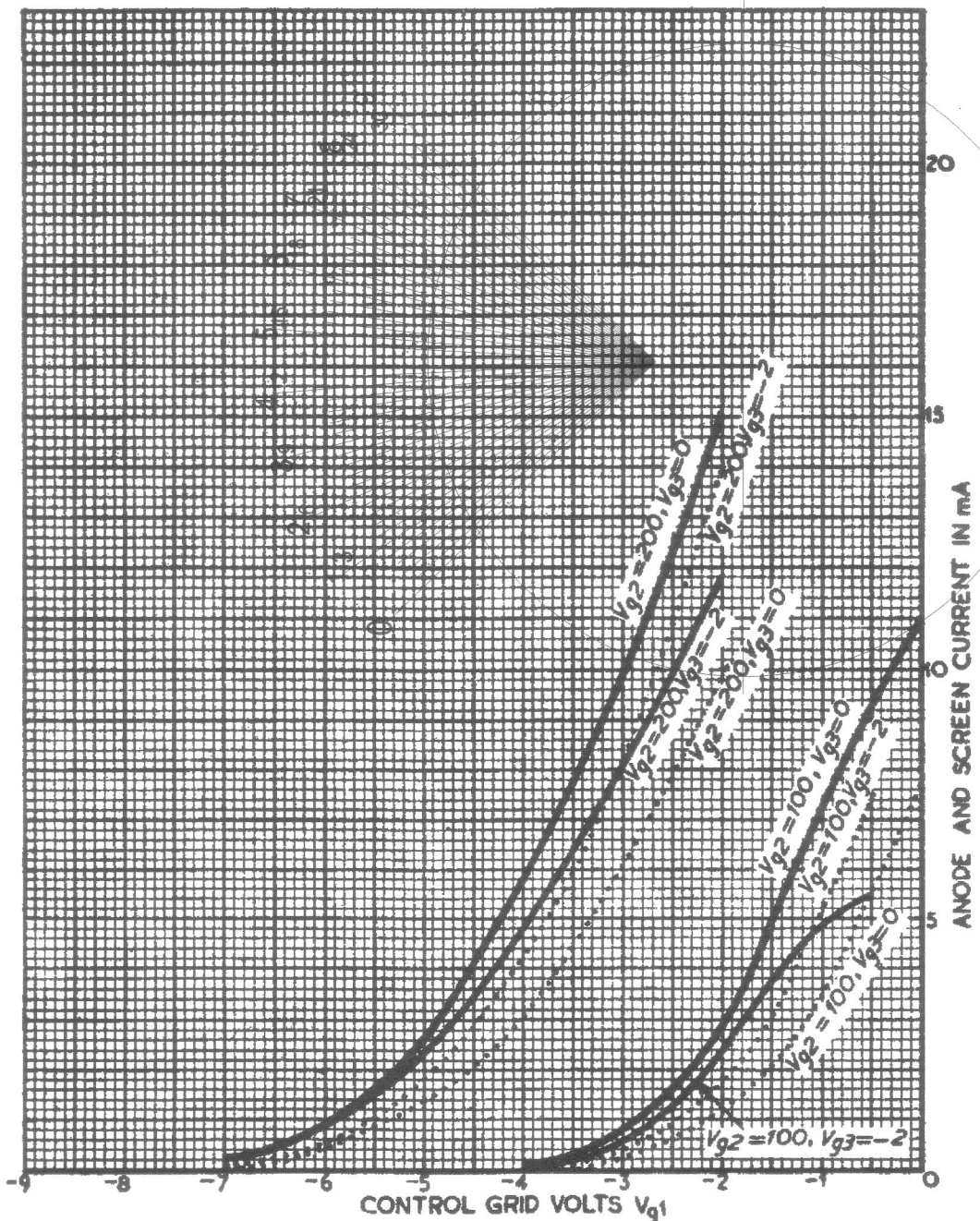
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CHARACTERISTIC CURVES OF AVERAGE EDISWAN VALVE 6F33

Curves taken at $V_b = 200V$.

Key { — Anode Current
 Screen Current



May 1948

VALVE & CRT DIVISION

Issue 1/6

SIEMENS EDISON SWAN LIMITED

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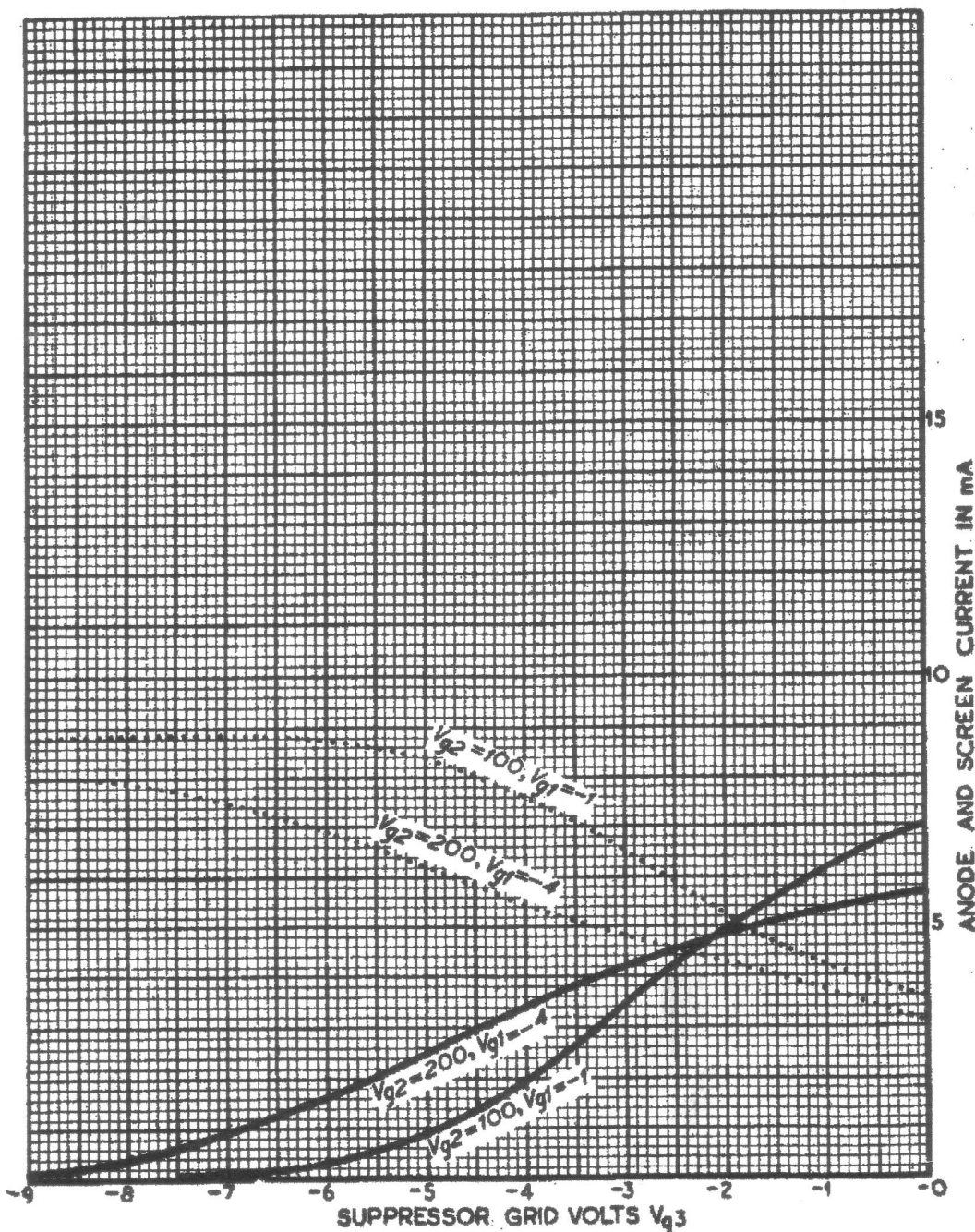
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Curves taken at $V_b = 200V$.

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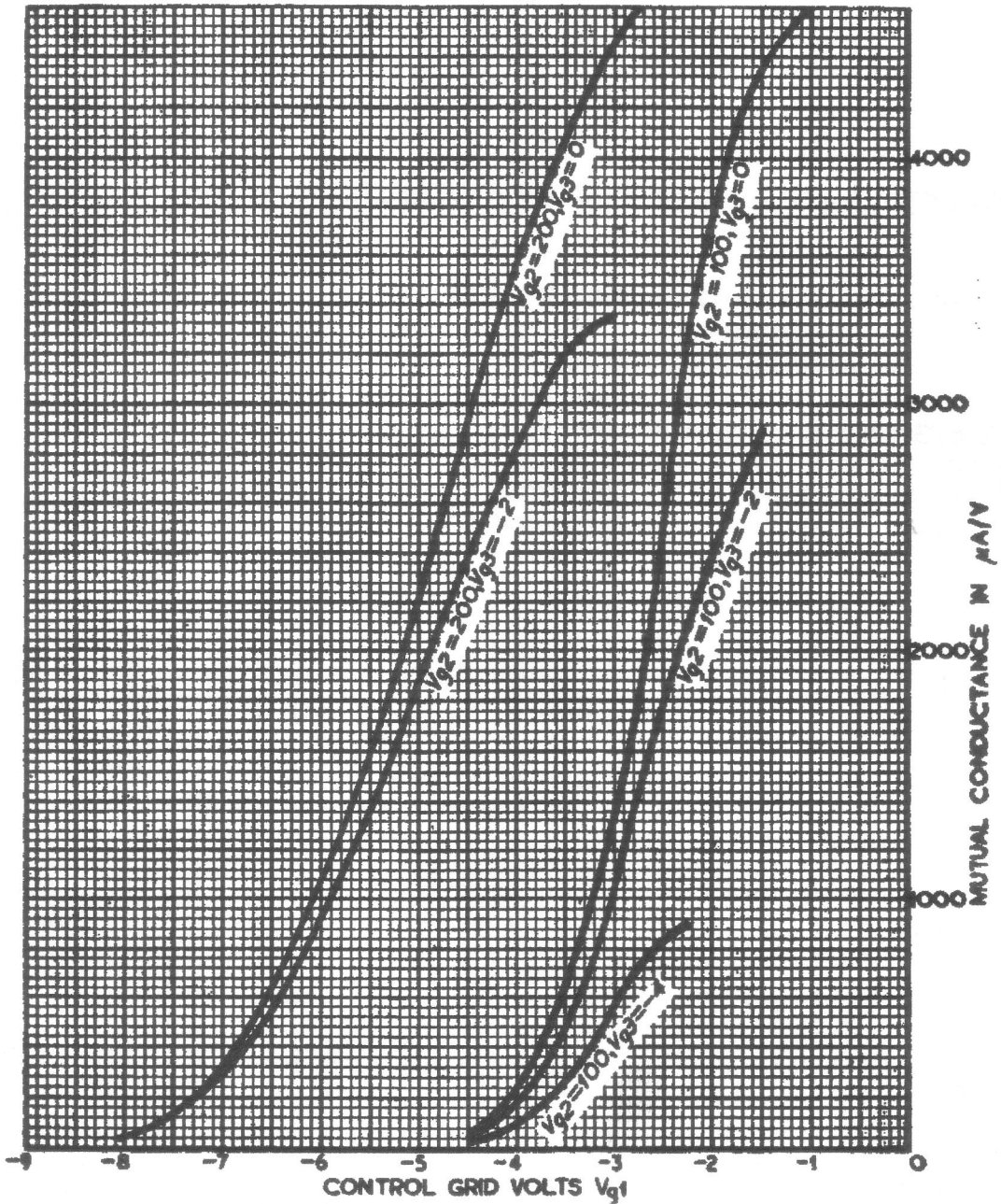
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CHARACTERISTIC CURVES OF AVERAGE EDISWAN VALVE 6F33

Curves taken at $V_g = 200V$.



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Curves taken at $V_b = 200V$

