

# MAZDA

## 6F33

### SCREENED R.F. PENTODE

#### Indirectly heated

6F33

#### GENERAL

The 6.F.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 (amp)	$I_h$	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 $\mu$ $H$	$\mu_{g1 g2}$	• 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  $V_a = 200v$ ;  $V_{g2} = 100v$ ;  
 $V_{g1} = -1.5v$ ;  $V_{g3} = 0v$ .

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

#### INTER-ELECTRODE CAPACITANCES

		$\delta$	$\S$
Anode/Earth	( $\mu F$ )	$C_{out}$	4.5
Anode/Control Grid	( $\mu F$ )	$C_{a-g1}$	0.01
Control Grid/Earth	( $\mu F$ )	$C_{in}$	7.3
Suppressor Grid/Earth	( $\mu F$ )	$C_{g3-E}$	10.0

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

$\S$  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)	$\uparrow$
Approximate Packed Weight	(ozs)	$\uparrow$

MOUNTING POSITION - Unrestricted.

Indicates a change

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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

MAZDA

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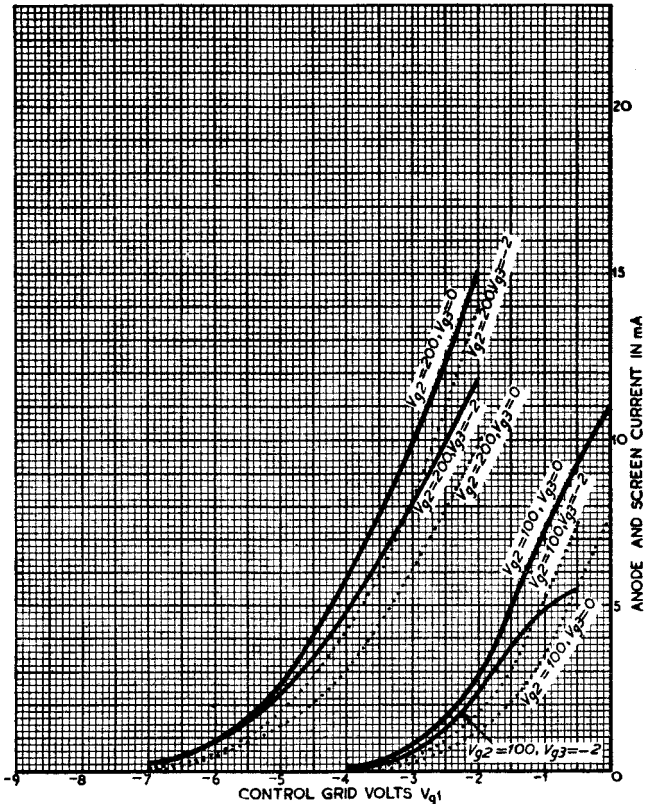
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## CHARACTERISTIC CURVES OF AVERAGE EDISWAN VALVE 6F33

Curves taken at  $V_g = 200V$ .

Key { — Anode Current  
      ..... Screen Current



May 1948

VALVE & CRT DIVISION

Issue 1/6

# SIEMENS EDISON SWAN LIMITED

6F33

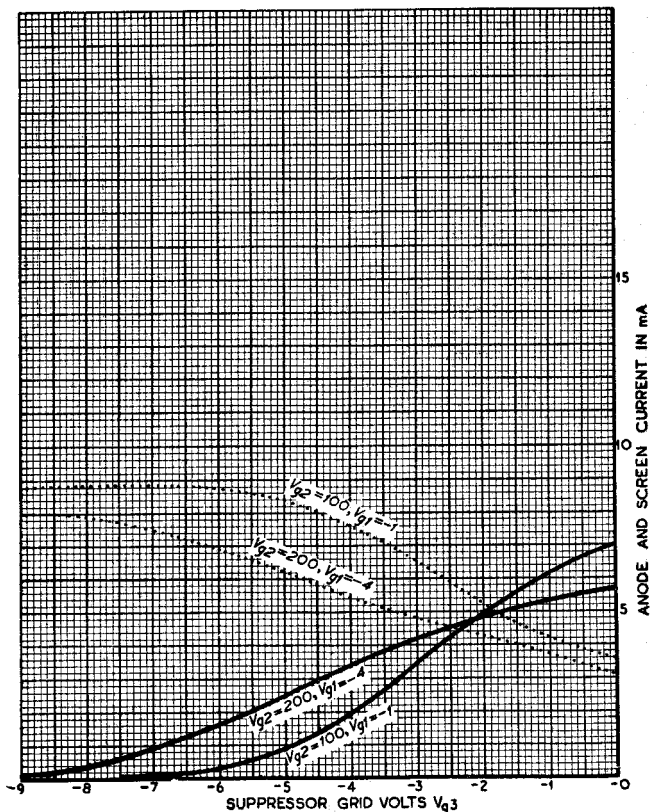
# EDISWAN MAZDA 6F33

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## CHARACTERISTIC CURVES OF AVERAGE EDISWAN VALVE 6F33

Curves taken at  $V_b = 200V$ .

Key { — Anode Current  
      ..... Screen Current



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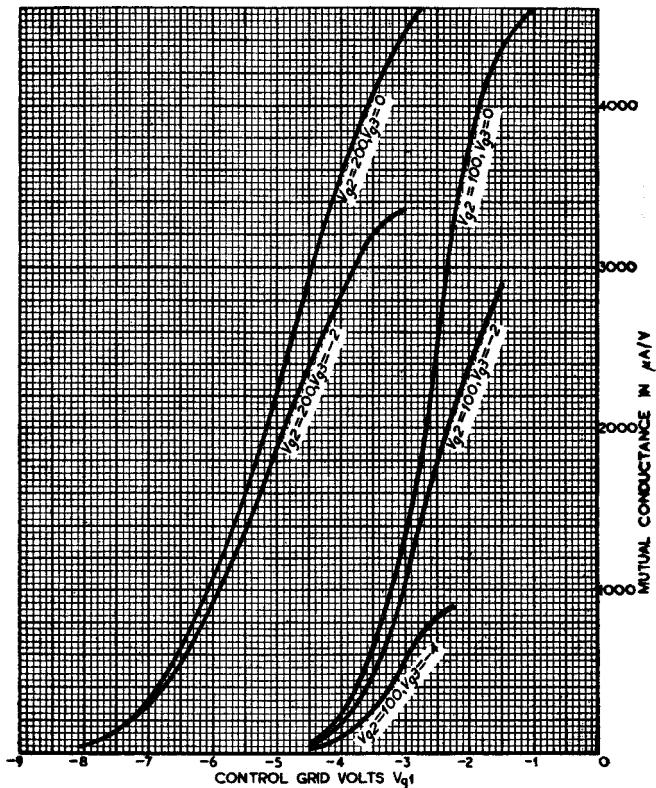
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## CHARACTERISTIC CURVES OF AVERAGE EDISWAN VALVE 6F33

Curves taken at  $V_b = 200V$ .



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CHARACTERISTIC CURVES OF AVERAGE  
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Curves taken at  $V_b = 200V$

