

.6AR7-GT

DUO-DIODE PENTODE

REMOTE CUT-OFF TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	a.c. or d.c. volts
Current	0.3	amp.

Direct Interelectrode Capacitances: ϕ

Grid No.1 to Plate	0.003	max.	$\mu\mu\text{F}$
Input	5.0		$\mu\mu\text{F}$
Output	9.0		$\mu\mu\text{F}$
Diode No.1 to Diode No.2	0.3	max.	$\mu\mu\text{F}$
Diode No.1 to Grid No.1	0.00045	max.	$\mu\mu\text{F}$
Diode No.2 to Grid No.1	0.00045	max.	$\mu\mu\text{F}$

Mechanical:

Mounting Position
Maximum Overall Length
Maximum Seated Height
Maximum Diameter

Any
3-3/8"
3-1/16"
1-5/16"

Bulb

Cap

Base

Skirted miniature- Style C
Intermediate Shell Octal 8-Pin

Pin 1 - Heater

Pin 6 - Diode No.1

Pin 2 - Base shield

Pin 7 - Cathode,

and metal

Grid No.3 &

shell.

internal

Pin 3 - Plate

shields.

Pin 4 - Grid No.2

Pin 8 - Heater

(Screen)

Cap - Grid No.1

Pin 5 - Diode No.2

BOTTOM
VIEW



PENTODE UNIT

Maximum Ratings; Design-Centre Values:

Plate Voltage	300 max. volts
Grid No.2 (Screen) Voltage	125 max. volts
Grid No.2 Supply Voltage	300 max. volts
Plate Dissipation	2.25 max. watts
Screen Dissipation	0.35 max. watts
Grid No.1 (Control-Grid) Voltage:	
Negative Bias Value	0 min. volts
Peak Heater-Cathode Voltage:	
Heater negative with respect to cathode	90 max. volts
Heater positive with respect to cathode	90 max. volts

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AMPLIFIER - Class A₁

Typical Operation and Characteristics:

Plate Voltage	250	volts
Grid No.2 Voltage	100	volts
Grid No.1 Voltage	-2	volts
Mutual Conductance	2,500	μ mhos
Grid No.1 Voltage (approx.) for Mutual Conductance = 20 μ mhos	-25	volts
Plate Current	7.0	mA
Grid No.2 Current	1.8	mA
Plate Resistance	1.0	megohm

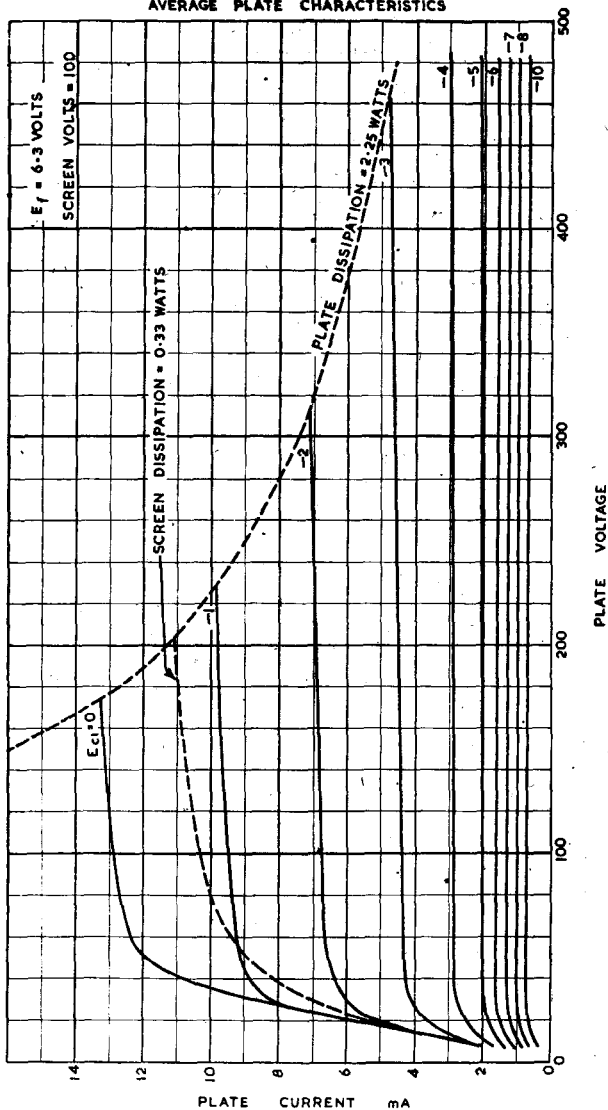
DIODE UNIT

The two diode plates are placed around a cathode, the sleeve of which is common to the pentode unit. Each diode plate has its own base pin. The minimum diode current per plate with an applied d.c. voltage of 10 volts is 0.8 mA.

- With base shield and metal shell earthed.

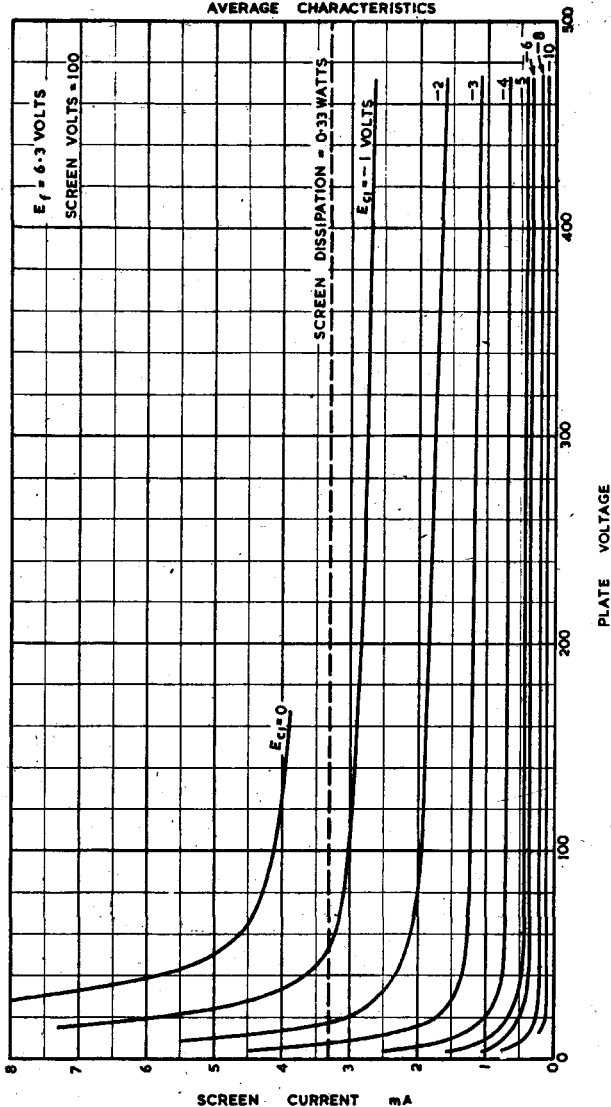
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AVERAGE PLATE CHARACTERISTICS



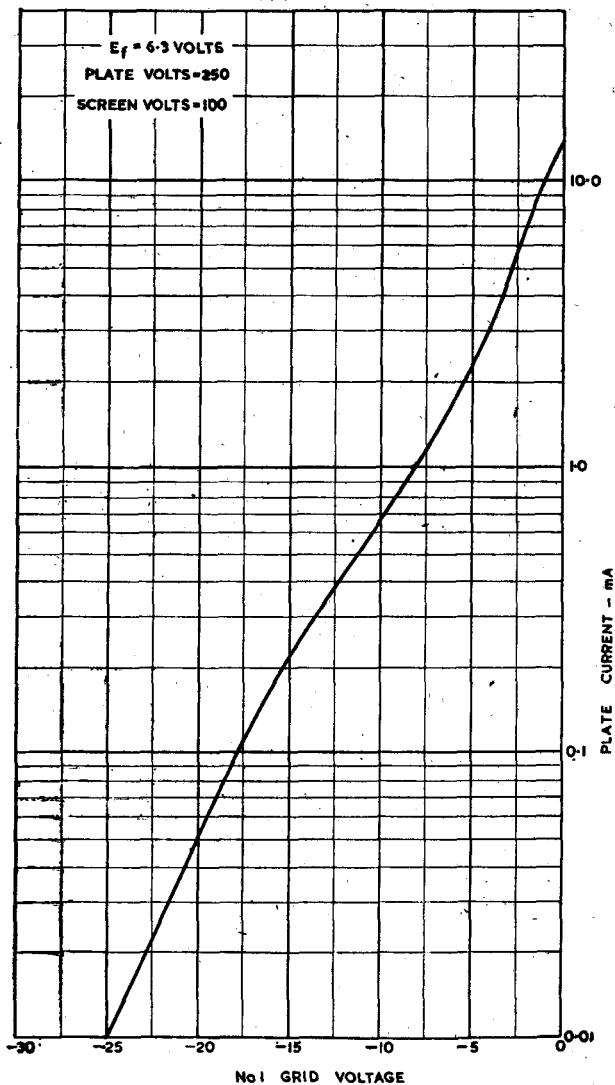
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AVERAGE CHARACTERISTICS



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AVERAGE MUTUAL CHARACTERISTICS



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AVERAGE CHARACTERISTICS

