

# .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:  $\mu\text{F}$

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

**Mechanical:**

Mounting Position	Any
Maximum Overall Length	3-3/8"
Maximum Seated Height	3-1/16"
Maximum Diameter	1-5/16"
Bulb	T9
Cap	Skirted miniature- Style C
Base	Intermediate Shell Octal 8-Pin

- Pin 1 - Heater
- Pin 2 - Base shield  
and metal  
shell.
- Pin 3 - Plate
- Pin 4 - Grid No.2  
(Screen)
- Pin 5 - Diode No.2



BOTTOM  
VIEW

- Pin 6 - Diode No.1
- Pin 7 - Cathode,  
Grid No.3 &  
internal  
shields.
- Pin 8 - Heater
- Cap - Grid No.1

### 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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## DUO-DIODE PENTODE

### AMPLIFIER - Class A<sub>1</sub>

#### Typical Operation and Characteristics:

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

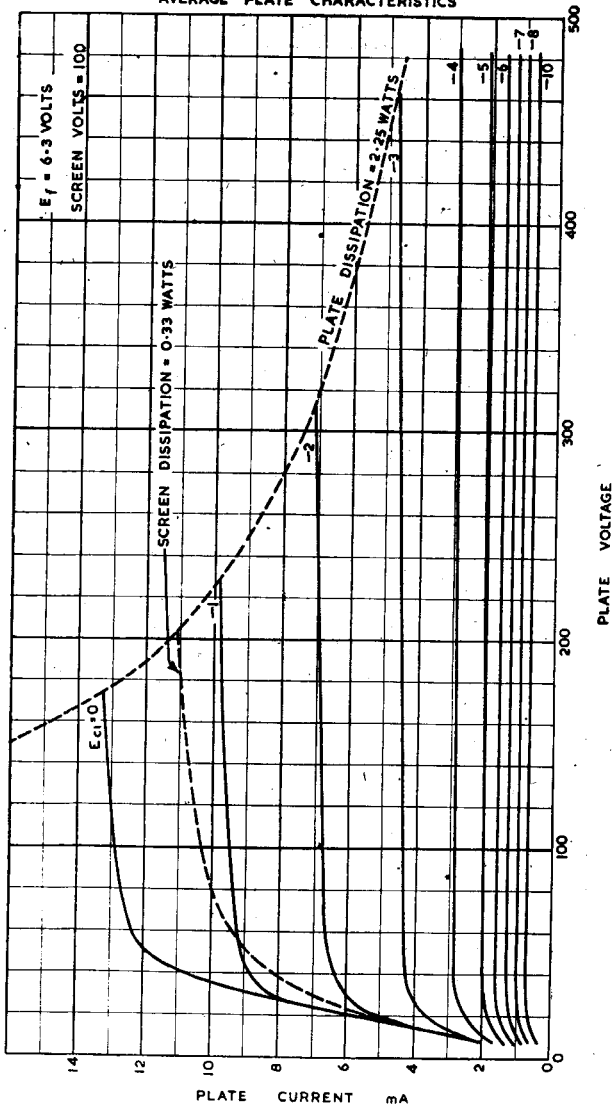
### DIODE UNIT

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.

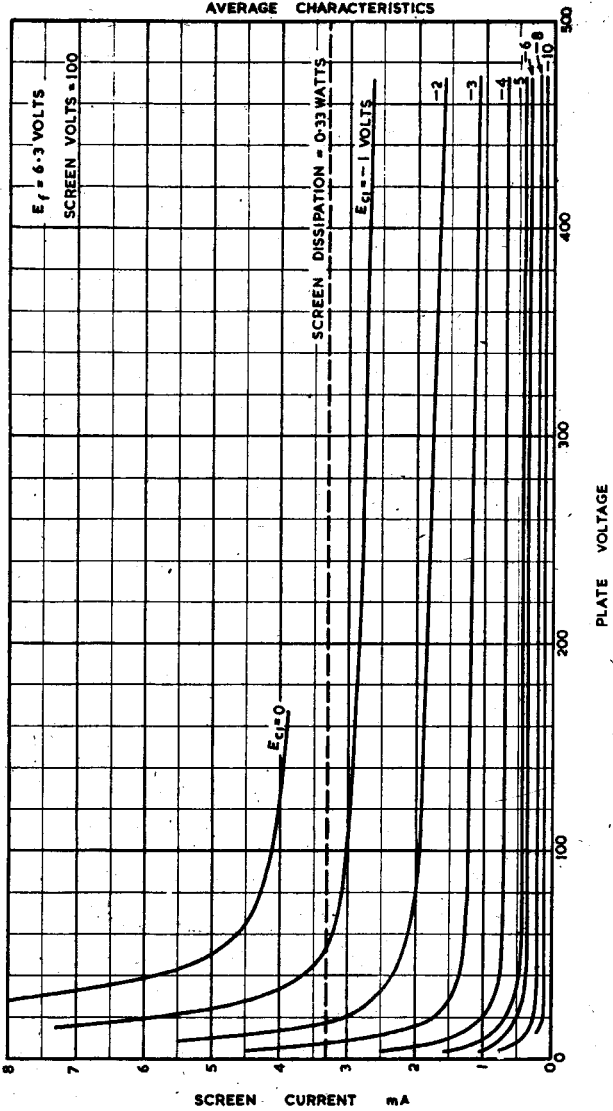
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## AVERAGE PLATE CHARACTERISTICS



# 6AR7-GT

## AVERAGE CHARACTERISTICS

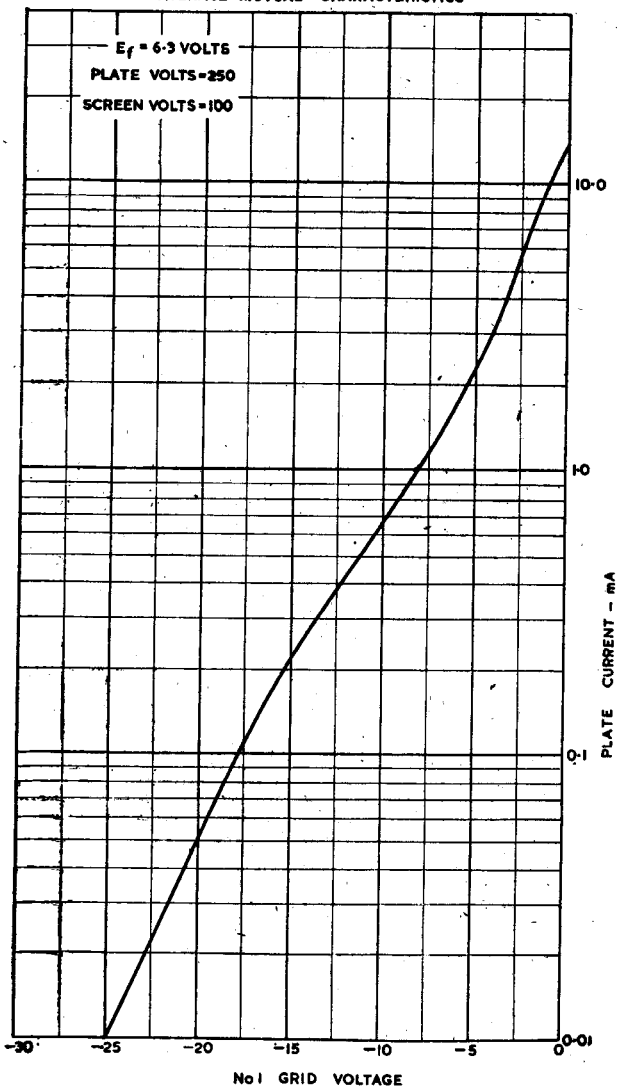


SCREEN CURRENT mA

PLATE VOLTAGE

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## AVERAGE MUTUAL CHARACTERISTICS



# 6AR7-GT

## AVERAGE CHARACTERISTICS

