6SZ7

DUPLEX-DIODE HIGH-MU TRIODE

SINGLE-ENDED METAL TYPE

GENERAL DATA

Electrical:

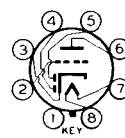
Heater, for Unipotential Cathode:		
Voltage	6.3	ac or dc volts
Current	0.15	amp.
Direct Interelectrode Capacitances-Triode Unit (Approx.):[o]		
Grid to Plate	1.1	μμf
Grid to Cathode	2.6	μμf
Plate to Cathode	2.8	μμf

[o] with shell connected to cathode.

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-1/16"
Maximum Diameter	1-5/16"
Bulb	MT-8G
Base	Small Wafer Octal 8-Pin
Basing Designation for BOTTOM VIEW	8Q

Pin 1 - Shell
Pin 2 - Triode Grid
Pin 3 - Cathode
Pin 4 - Diode Plate No. 2



Pin 5 - Diode Plate No. 1
Pin 6 - Triode Plate
Pin 7 - Heater
Pin 8 - Heater

TRIODE UNIT

Maximum Ratings, *Design-Center Values*:

PLATE VOLTAGE	300 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Characteristics - Class A_1 Amplifier:

Plate Voltage	100	250	volts
Grid Voltage	-1	-3	volts
Amplification Factor	70	70	
Plate Resistance (Approx.)	61000	58700	ohms
Transconductance	1150	1200	μmhos
Plate Current	0.8	1	ma.

Typical Operation — Resistance-Coupled Amplifier:

Same as type 6Q7 in RESISTANCE-COUPLED AMPLIFIER CHART

DIODE UNITS - Two

Consideration of these units, including typical circuits and diode curves is given at the front of this section. Diode biasing of the triode unit of the 6SZ7 is not suitable.

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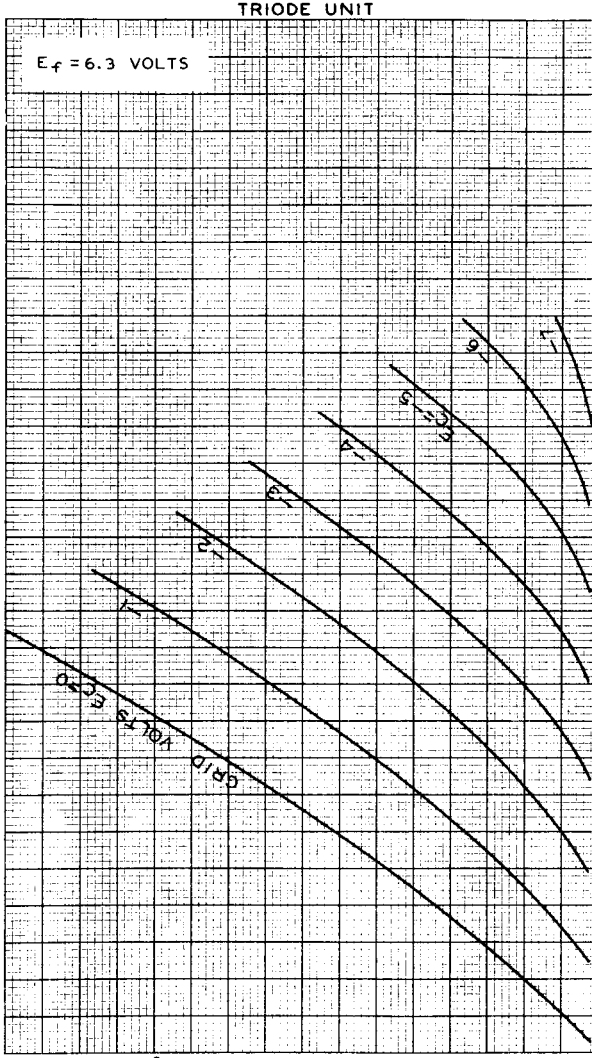
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AVERAGE PLATE CHARACTERISTICS
TRIODE UNIT