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TWIN DIODE—HIGH-MU TRIODE

9-PIN MINIATURE TYPE

With heater having controlled warm-up time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3	volts
Current	0.6 ± 6%	amp ←
Warm-up time (Average)	11	sec

Direct Interelectrode Capacitances:^o

Triode Unit:

Grid to plate	2.5	μmf
Grid to heater and cathode	3.6	μmf
Plate to heater and cathode	0.25	μmf

Diode Units:

Diode-No.1 plate to triode grid	0.06 max.	μmf
Diode-No.2 plate to triode grid	0.1 max.	μmf
Diode-No.1 cathode to all other electrodes	5	μmf
Diode-No.2 cathode to all other electrodes	5	μmf
Diode-No.1 plate to diode-No.2 plate	0.07 max.	μmf
Diode-No.1 plate to diode-No.1 cathode and heater	1.9	μmf
Diode-No.2 plate to diode-No.2 cathode and heater	1.9	μmf
Diode-No.1 cathode to diode-No.1 plate and heater	4.8	μmf
Diode-No.2 cathode to diode-No.2 plate and heater	4.8	μmf
Diode-No.1 plate to all other electrodes	3	μmf
Diode-No.2 plate to all other electrodes	3	μmf

Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage	100	250	volts
Grid Voltage	-1	-3	volts
Amplification Factor	75	70	
Plate Resistance (Approx.)	21000	28000	ohms
Transconductance	3500	2500	μmhos
Plate Current	1.5	1.6	ma
Grid Voltage (Approx.) for plate μa = 10	-2.5	-5.5	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip)	2" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See General Section

← Indicates a change.

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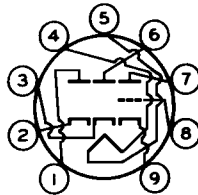


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TWIN DIODE—HIGH-MU TRIODE

Bulb. T6-1/2
 Base. Small-Button Noval 9-Pin (JEDEC No. E9-1)
 Basing Designation for BOTTOM VIEW. 9ER

Pin 1—Diode-No.2
 Plate
 Pin 2—Diode-No.2
 Cathode
 Pin 3—Diode-No.1
 Cathode
 Pin 4—Heater



Pin 5—Heater
 Pin 6—Diode-No.1
 Plate
 Pin 7—Triode Plate
 Pin 8—Triode Grid
 Pin 9—Triode
 Cathode

TRIODE UNIT — AMPLIFIER — Class A₁

→ Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	330 max.	volts
GRID VOLTAGE:		
Positive-bias value	0 max.	volts
PLATE DISSIPATION	1.7 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 [▲] max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	1 max.	megohm
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DIODE UNITS — Two

Maximum Ratings, Design-Maximum Values:

Values are for Each Unit

PEAK PLATE CURRENT.	54 max.	ma
DC PLATE CURRENT.	9 max.	ma
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 [▲] max.	volts

○ Without external shield.

▲ The dc component must not exceed 100 volts.

→ Indicates a change.

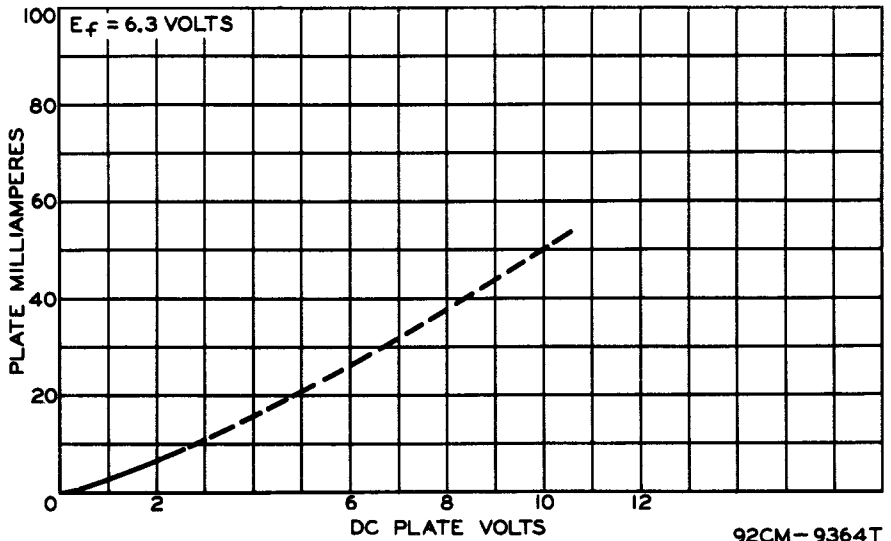


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TWIN DIODE—HIGH-MU TRIODE

AVERAGE PLATE CHARACTERISTIC
EACH DIODE UNIT

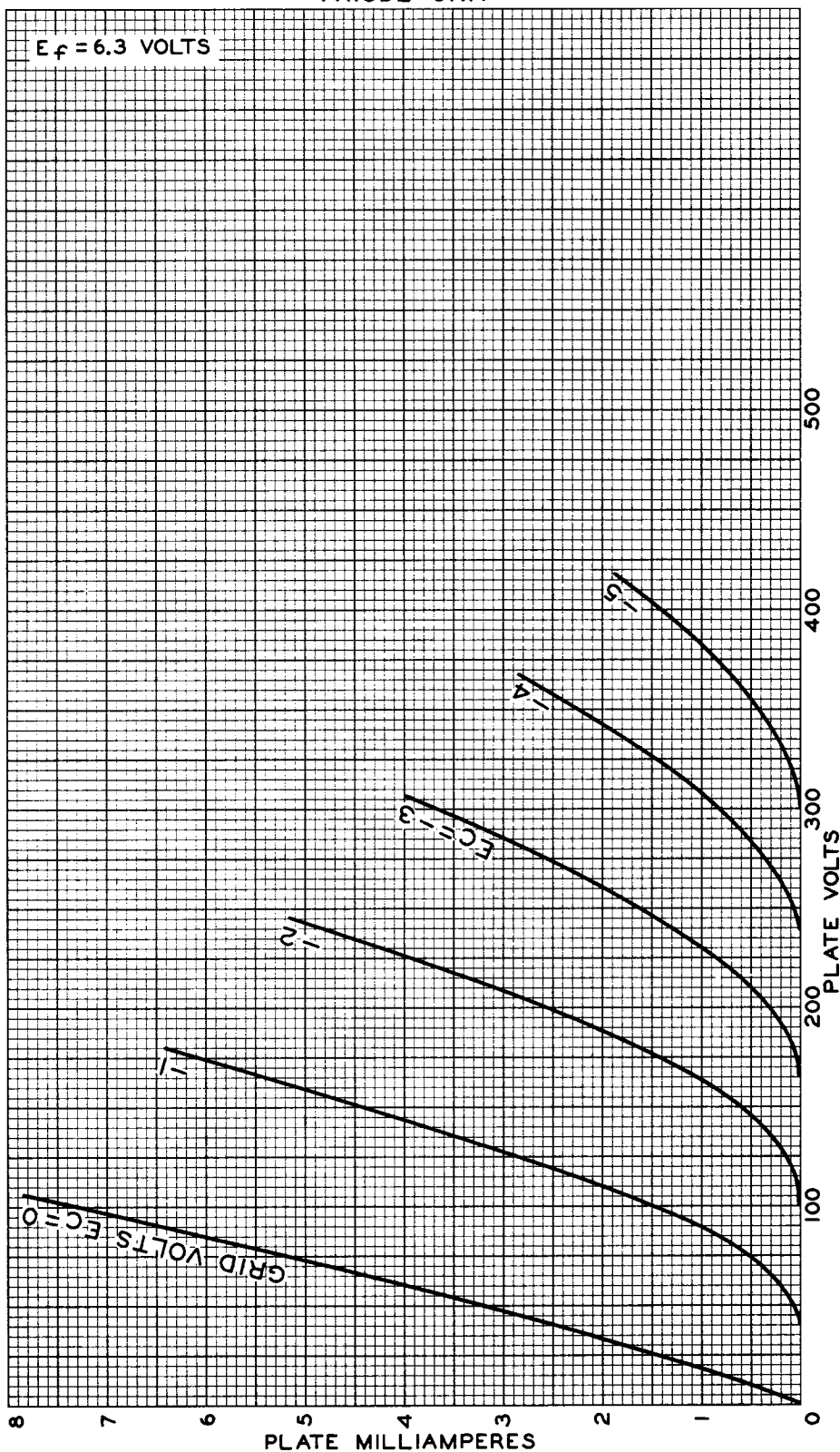


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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT



ELECTRON TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9363



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AVERAGE CHARACTERISTICS
TRIODE UNIT