



7E6

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# TWIN DIODE—MEDIUM-MU TRIODE

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathode:

Voltage . . . . .	6.3 <sup>□</sup>	ac or dc volts
Current . . . . .	0.3 <sup>□□</sup>	amp

Direct Interelectrode Capacitances:\*

Triode Unit:

Grid to Plate . . . . .	1.5	μf
Grid to Cathode . . . . .	3.0	μf
Plate to Cathode . . . . .	2.4	μf
Diode-No.1 Plate to Grid. . . . .	0.01 max.	μf
Diode-No.2 Plate to Grid. . . . .	0.04 max.	μf

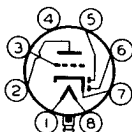
\* With external shield connected to cathode.

### Mechanical:

Mounting Position . . . . .	Any
Maximum Overall Length. . . . .	2-25/32"
Maximum Seated Length . . . . .	2-1/4"
Maximum Diameter. . . . .	1-3/16"
Bulb. . . . .	T-9
Base. . . . .	Lock-in 8-Pin

Basing Designation for BOTTOM VIEW . . . . . 8W

- Pin 1-Heater
- Pin 2-Triode Plate
- Pin 3-Triode Grid
- Pin 4-Internal Connection  
—Do Not Use
- Pin 5-Diode-No.2 Plate



- Pin 6-Diode-No.1 Plate
- Pin 7-Cathode
- Pin 8-Heater

Plug-Base Shell

## TRIODE UNIT AMPLIFIER—Class A1

### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . .	300 max.	volts
PLATE DISSIPATION . . . . .	2.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

### Typical Operation and Characteristics:

Plate Voltage . . . . .	100	250	volts
Cathode-Bias Resistor . . . . .	770	950	ohms
Amplification Factor. . . . .	16.5	16	
Plate Resistance . . . . .	11000	8500	ohms

(continued on next page)

□ Nominal Voltage = 7.0 volts.

□□ Nominal Current = 0.32 ampere.

← indicates a change.

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## TWIN DIODE—MEDIUM-MU TRIODE

Transconductance . . . . .	1500	1900	. .	$\mu$ hos
Plate Current . . . . .	3.9	9.5	. .	ma

**Maximum Circuit Values (for maximum circuit conditions):**

Grid-No.1-Circuit Resistance . . . . .	1 max.	megohm
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DIODE UNITS—Two**Maximum Ratings, Design-Center Values:**

PLATE CURRENT (Each Diode) . . . . .	1 max.	ma
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