



7E7

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TWIN DIODE-REMOTE-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3 [□]	ac or dc volts
Current	0.3 ^{□□}	amp

Direct Interelectrode Capacitances:[○]

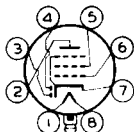
Pentode Unit:

Grid No.1 to Plate	0.005	max.	μf
Input	4.6		μf
Output	5.5		μf
Diode-No.1 Plate to Grid No.1	0.013	max.	μf
Diode-No.2 Plate to Grid No.1	0.003	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	8AE
Pin 1 - Heater	Pin 6 - Pentode
Pin 2 - Pentode Plate	Grid No.1
Pin 3 - Diode-No.2 Plate	Pin 7 - Cathode, Pentode
Pin 4 - Diode-No.1 Plate	Grid No.3
Pin 5 - Pentode Grid No.2	Pin 8 - Heater
	Plug - Base
	Shell



PENTODE UNIT AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	100 max.	volts
GRID-No.2 SUPPLY VOLTAGE	300 max.	volts
PLATE DISSIPATION	2 max.	watts
GRID-No.2 DISSIPATION	0.3 max.	watt
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value	0 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	90 max.	volts
Heater positive with respect to cathode.	90 max.	volts

(continued on next page)

[□] Nominal voltage = 7.0 volts.

^{□□} Nominal current = 0.32 ampere.

← indicates a change.

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Typical Operation and Characteristics:

Plate Voltage.	100	250	. .	volts
Grid-No.2 Voltage.	100	100	. .	volts
Cathode-Bias Resistor.	80	330	. .	ohms
Plate Resistance (Approx.)	0.15	0.7	. .	megohm
Transconductance	1600	1300	. .	μ mhos
Grid-No.1 Bias (Approx.) for transconductance of 2 μ mhos	-36	-42.5	. .	volts
Plate Current.	10	7.5	. .	ma
Grid-No.2 Current.	2.7	1.6	. .	ma

DIODE UNITS - Two

Maximum Ratings, Design-Center Values:

PLATE CURRENT (For Each Diode)	1 max.	ma
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