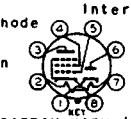
25A7-GT/G

RECTIFIER-PENTODE

Heater ■	Coated Unipotential Cathodes	
Voltage	25	a-c or d-c volts
Current	0.3	amp.
Maximum Overall Length		3-5/16"
Maximum Seated Height		2-3/4"
Maximum Diameter		1-5/16"
Bulb		T-9
Base		Intermediate Shell Octal 8-Pin
Pin 1 - Rectifier Cathode		Pin 6 - Rectifier Plate
Pin 2 - Heater		Pin 7 - Heater
Pin 3 - Pentode Plate		Pin 8 - Pentode Cathode, Grid #3
Pin 4 - Pentode Screen		
Pin 5 - Pentode Grid		
Mounting Position		Any



BOTTOM VIEW (8F)

Maximum Ratings Are Design-Center Values

PENTODE UNIT

Plate Voltage	117 max.	volts
Screen Voltage	117 max.	volts
Plate Dissipation	2.25 max.	watts
Screen Dissipation	0.8 max.	watt
Typical Operation and Characteristics - Class A_1 Amplifier:		
Plate Voltage	100	volts
Screen Voltage	100	volts
Grid Voltage *	-15	volts
Zero-Sig. Plate Current	20.5	ma.
Zero-Sig. Screen Current	4	ma.
Plate Resistance	50000	ohms
Transconductance	1800	μmhos
Load Resistance	4500	ohms
Total Harmonic Distortion	9	%
Power Output	0.77	watt

RECTIFIER UNIT (Half-Wave)

Peak Inverse Plate Voltage	350 max.	volts
Peak Plate Current	450 max.	ma.
D-C Output Current	75 max.	ma.
D-C Heater-Cathode Potential	175 max.	volts
Typical Operation With Condenser-Input Filter:		
A-C Plate Supply Voltage (RMS)	117	volts
Filter Input Condenser	16	μf
Min. Total Effect. Plate-Supply Impedance	15	ohms
D-C Output Current	75	ma.
D-C Voltage (At input to filter): °		
At half-load current (37.5 ma.)	130	volts
At full-load current (75 ma.)	110	volts
Difference (Voltage Regulation)	20	volts
Percentage Regulation	15	%

■ In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.

* The type of input coupling should not introduce too much resistance in the grid circuit. Transformer- or impedance-input coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not to exceed 0.5 megohm.

° Approximate values.

← Indicates a change.

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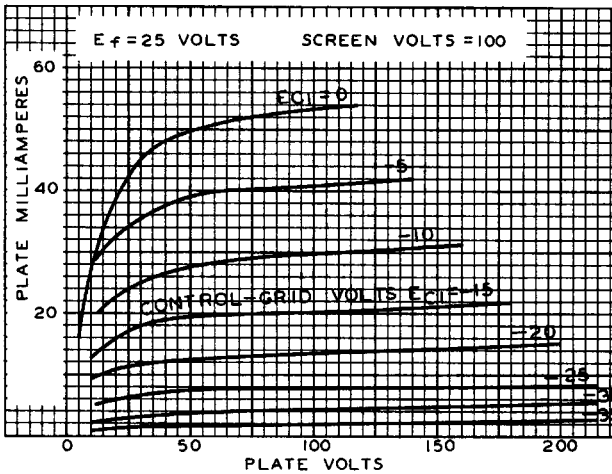
AVERAGE PLATE CHARACTERISTICS



OPERATION CHARACTERISTICS