



25A7-GT/G

25A7-GVG

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	(4)	Pin 6 - Rectifier Plate
Pin 2 - Heater	(5)	Pin 7 - Heater
Pin 3 - Pentode Plate	(3)	Pin 8 - Pentode Cathode, Grid #3
Pin 4 - Pentode Screen	(6)	
Pin 5 - Pentode Grid	(2)	
Mounting Position	(1) KEY (8)	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 A₁ 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 μ mhos
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	μ f
Min. Total Effect. Plate-Supply Impedance	15	ohms
D-C Output Current	75	ma.
D-C Voltage (At input to filter): ^o		
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.

^o Approximate values.

← Indicates a change.

Mar. 20, 1943

RCA VICTOR DIVISION

DATA

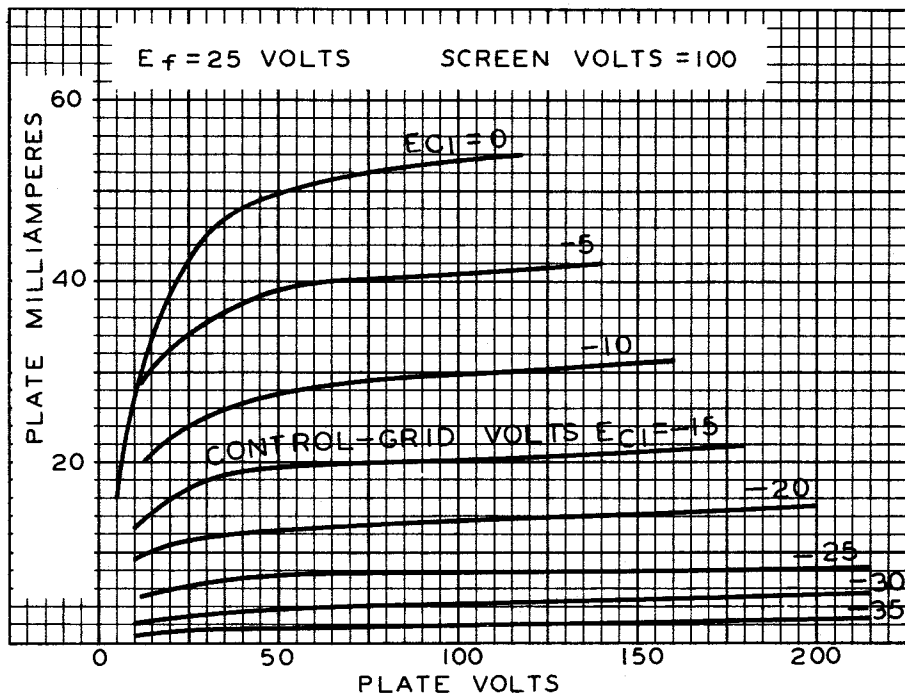
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

25A7-GT/G



25A7-GT/G

AVERAGE PLATE CHARACTERISTICS



OPERATION CHARACTERISTICS

