25Z5

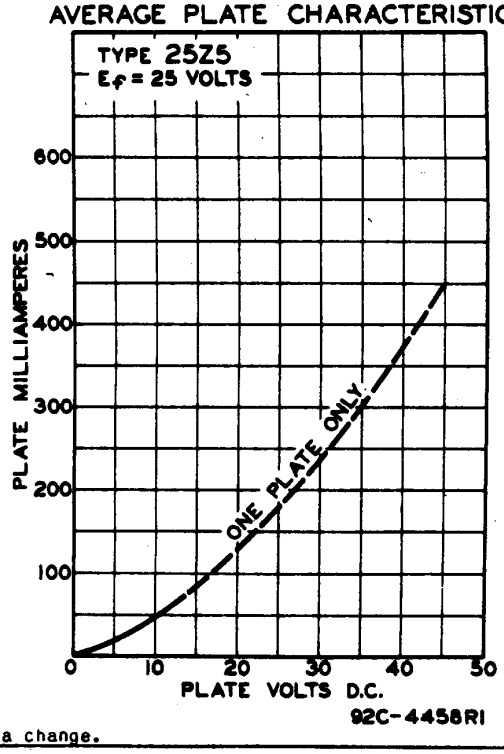
HIGH-VACUUM RECTIFIER-DOUBLER

Heater	• Coated Unipotential Cathodes	
Voltage	25	a-c or d-c volts
Current	0.3	amp.
Maximum Overall Length		4-3/16"
Maximum Seated Height		3-9/16" ←
Maximum Diameter		1-9/16"
Bulb		ST-12
Base		Small 6-Pin
Pin 1 - Heater		Pin 4 - Cathode #1
Pin 2 - Plate #2		Pin 5 - Plate #1
Pin 3 - Cathode #2		Pin 6 - Heater
Mounting Position	BOTTOM VIEW (6E)	Any

Maximum Ratings, Typical Operating Conditions, and Curves are the same as those for Type 25Z6.

In the design of "transformerless" receivers, a filter of condenser-input type is recommended for use with the 25Z5 in order to obtain a d-c output voltage as high as possible. A larger input capacitance, i.e., 16 μf, is desirable for half-wave rectifier service, while a higher value is advantageous for voltage-doubler circuits. Since the peak voltage applied to the input condenser(s) is relatively low, it is possible to use condensers having moderate voltage rating (sufficient only for the line voltage). For rectifier and voltage-doubler circuits, see next page.

AVERAGE PLATE CHARACTERISTIC



← Indicates a change.

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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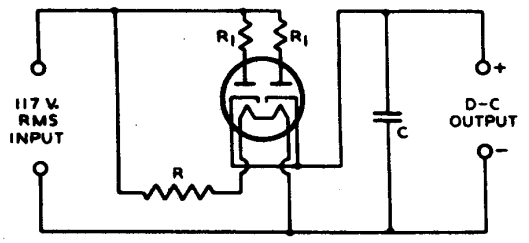
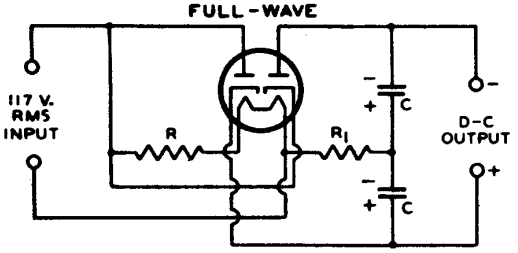
TYPICAL RECTIFIER-DOUBLER CIRCUITS

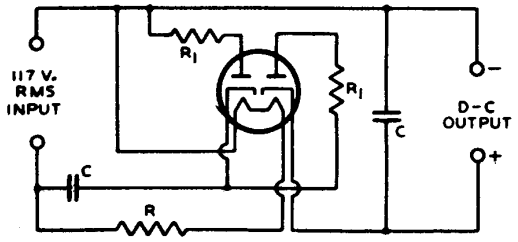
HALF-WAVE RECTIFIER



VOLTAGE-DOUBLER CIRCUIT
FULL-WAVE



VOLTAGE-DOUBLER CIRCUIT
HALF-WAVE



R = HEATERS OF OTHER TUBES IN SERIES WITH VOLTAGE-DROPPING RESISTOR

R_1 = PROTECTIVE RESISTOR

C = CONDENSERS