

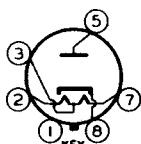


35Z5-GT/G

35Z5-GT/G

HALF-WAVE HIGH-VACUUM RECTIFIER

Heater	Coated Unipotential Cathode	
Voltage	{ Entire Heater (pins 2 & 7) Panel Lamp Section (pins 2 & 3) with 0.15 amp. between pins 2 & 7	35 a-c or d-c volts 7.5 a-c or d-c volts
Current		0.15 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 6-Pin	
Pin 1 - No Connection		Pin 5 - Plate
Pin 2 - Heater		Pin 7 - Heater
Pin 3 - Heater Tap		Pin 8 - Cathode
Mounting Position		Any



BOTTOM VIEW (G-6AD)

*Maximum Ratings Are Design-Center Values*HALF-WAVE RECTIFIER

Peak Inverse Plate Voltage	700 max. volts
Peak Plate Current	600 max. ma.

D-C Output Current:

With Panel Lamp and	{ No Shunting Resistor Shunting Resistor *	60 max. ma. 90 max. ma.
Without Panel Lamp		100 max. ma.

D-C Heater-Cathode Potential	350 max. volts
Panel-Lamp-Sect. Volt. (RMS) when panel lamp fails	15 max. volts

*Typical Operation with #40 or #47 Panel Lamp in Circuit
on Next Page with Condenser-Input Filter:*

Heater Cur. between Pins 3 & 7	0.15	0.15	0.15	0.15	0.15	amp.
Heater Volt. between Pins 2 & 7	32	32	32	32	32	volts
Section Volt. between Pins 2 & 3	5.5	5.5	5.5	5.5	5.5	volts
A-C Plate-Supply Voltage (RMS)	117	117	117	117	235	volts
Filter Input Condenser	40	40	40	40	40	μf
Min. Total Effec. Plate-Supply Imped.	15	15	15	15	100	ohms
D-C Output Current	60	70	80	90	60	ma.
Shunting Resistance	-	300	150	100	-	ohms

*Typical Operation Without Panel Lamp in Conventional**Half-Wave Circuit with Condenser-Input Filter:*

Heater Cur. between Pins 3 & 7	0.15	0.15	amp.
Heater Volt. between Pins 2 & 7	35	35	volts
Section Volt. between Pins 2 & 3	7.5	7.5	volts
A-C Plate-Supply Voltage (RMS)	117	235	volts
Filter Input Condenser	40	40	μf
Min. Total Effec. Plate-Supply Imped.	15	100	ohms
D-C Output Current	100	100	ma.
D-C Voltage (At input to filter):**			
At half-load current (50 ma.)	140	280	volts
At full-load current (100 ma.)	120	235	volts
Difference (Voltage Regulation)	20	45	volts
Percentage Regulation	14	16	%

* A pilot lamp shunting resistor is required for a d-c output current greater than 60 ma. See Typical Operation for representative values. Maximum values are as follows: for 70 ma., 800 ohms; for 80 ma., 400 ohms; for 90 ma., 250 ohms.

** Values are approximate.

The Curve under Type 35Z4-GT also applies to the 35Z5-GT/G.

June 1, 1943

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

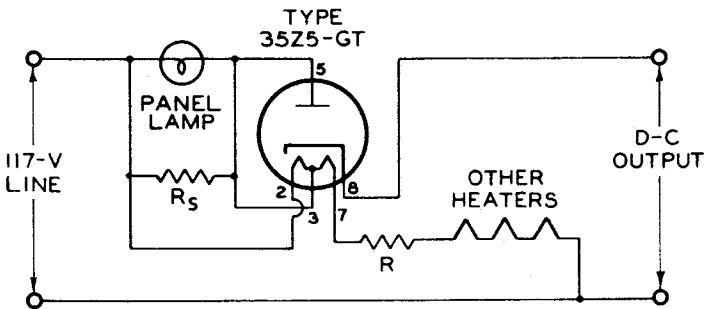
DATA

35Z5-GT



35Z5-GT

HALF-WAVE HIGH-VACUUM RECTIFIER



DROP ACROSS R AND ALL HEATERS (WITH PANEL LAMP) SHOULD EQUAL 117 VOLTS AT 0.15 AMPERE. R_5 = SHUNTING RESISTOR REQUIRED WHEN D-C OUTPUT CURRENT EXCEEDS 60 MILLIAMPERES

The license extended to the purchaser of tubes appears in the License Notice accompanying them. Information contained herein is furnished without assuming any obligations.

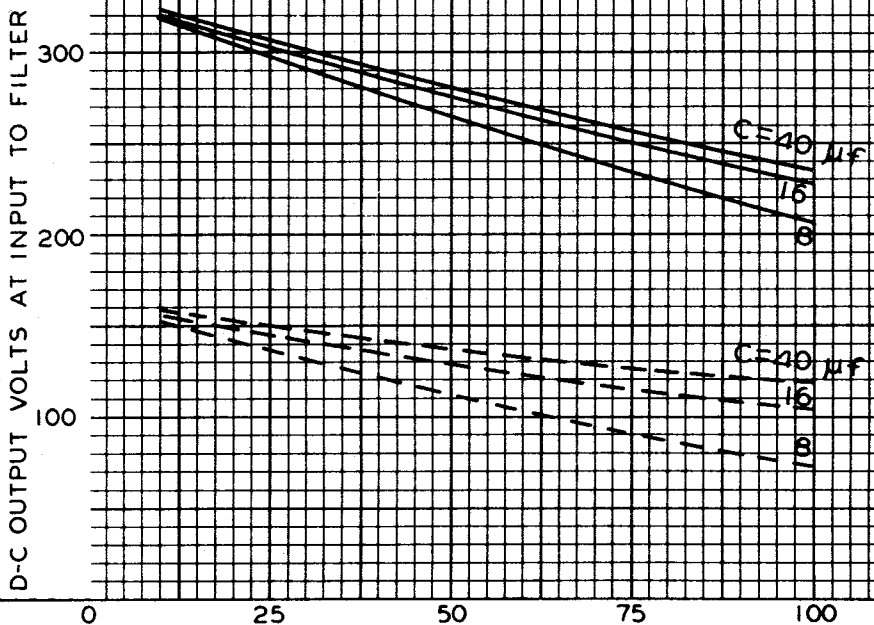
OPERATION CHARACTERISTICS HALF-WAVE RECTIFIER

E_f = 35 VOLTS BETWEEN PINS No 2 & No 7 (NO TAP CONNECTON)

C = CONDENSER INPUT TO FILTER

— { PLATE VOLTS = 235 RMS
TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE = 100 OHMS

- - - { PLATE VOLTS = 117 RMS
TOTAL EFFECTIVE PLATE-SUPPLY IMPEDANCE = 15 OHMS



June 1, 1943

D-C LOAD MILLIAMPERES
RCA VICTOR DIVISION

CE-6361

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