

# Description and Rating

## HALF-WAVE HIGH-VACUUM RECTIFIER

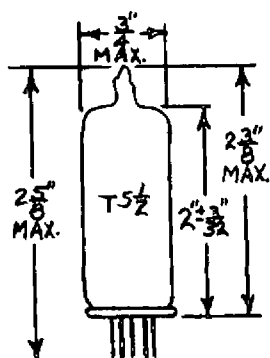
### GENERAL DESCRIPTION

Principal Application: The 35C3 is a miniature half-wave high vacuum rectifier designed for use in a-c/d-c receivers. This tube is similar to the 35W4 but does not have a tapped heater for pilot lamp operation.

Cathode: .....Coated Unipotential  
Heater Voltage (AC or DC):.....35.0 Volts  
Heater Current:.....0.15 Ampere

Envelope:.....T-5½ Glass  
Base:.....E7-1, Miniature Button 7 Pin  
Mounting Position:.....Any

### PHYSICAL DIMENSIONS

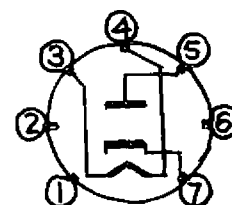


RETMA 5-3

### TERMINAL CONNECTIONS

Pin 1 - No Connection  
Pin 2 - No Connection  
Pin 3 - Heater  
Pin 4 - Heater  
Pin 5 - Plate  
Pin 6 - No Connection  
Pin 7 - Cathode

### BASING DIAGRAM



RETMA 7ET

BOTTOM VIEW

### MAXIMUM RATINGS

#### DESIGN CENTRE VALUES:

|                                 |     |       |
|---------------------------------|-----|-------|
| Peak Inverse Plate Voltage      | 330 | ..... |
| Steady-State Peak Plate Current | 600 | ..... |
| Steady-State D-C Output Current | 100 | ..... |
| Peak Heater-Cathode Voltage     | 330 | ..... |

Volts  
Milliamperes  
Milliamperes  
Volts

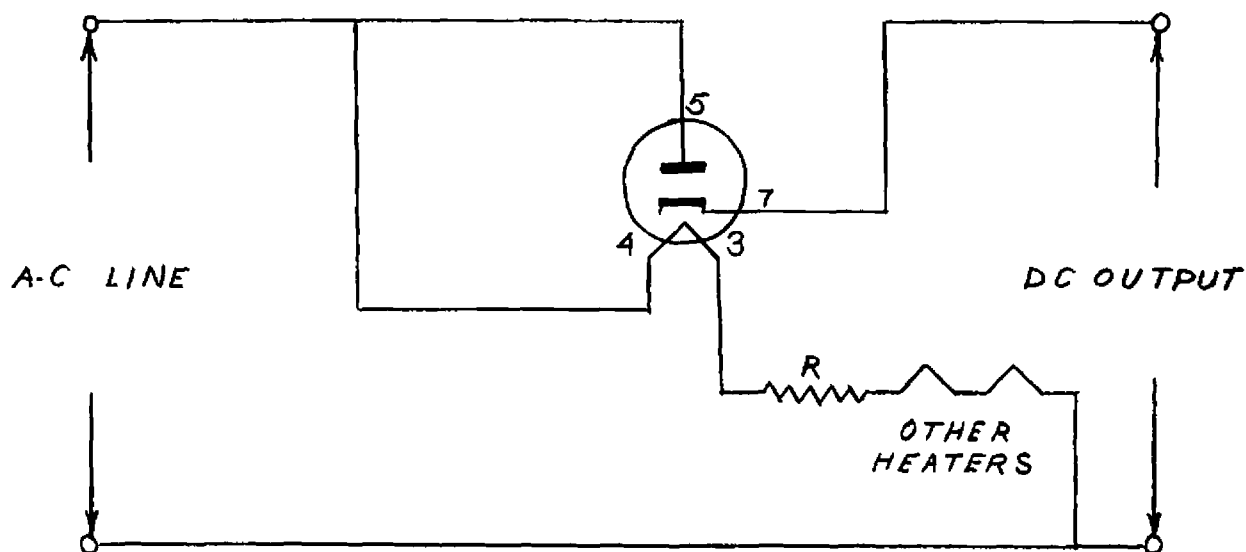
# CHARACTERISTICS AND TYPICAL OPERATION

## HALF-WAVE RECTIFIER - CAPACITOR - INPUT FILTER

|                                                      |     |       |              |
|------------------------------------------------------|-----|-------|--------------|
| Heater Voltage .....                                 | 35  | ..... | Volts        |
| Heater Current .....                                 | 150 | ..... | Milliamperes |
| A-C Plate Supply Voltage (RMS).....                  | 117 | ..... | Volts        |
| Filter Input Capacitor .....                         | 40  | ..... | Microfarads  |
| Minimum Total Effective Plate Supply Impedance ..... | 15  | ..... | Ohms         |
| D-C Output Current .....                             | 100 | ..... | Milliamperes |
| D-C Output Voltage at Input to Filter (Approx.)      |     |       |              |
| At 50 Milliamperes Load Current.....                 | 135 | ..... | Volts        |
| At 100 Milliamperes Load Current.....                | 120 | ..... | Volts        |

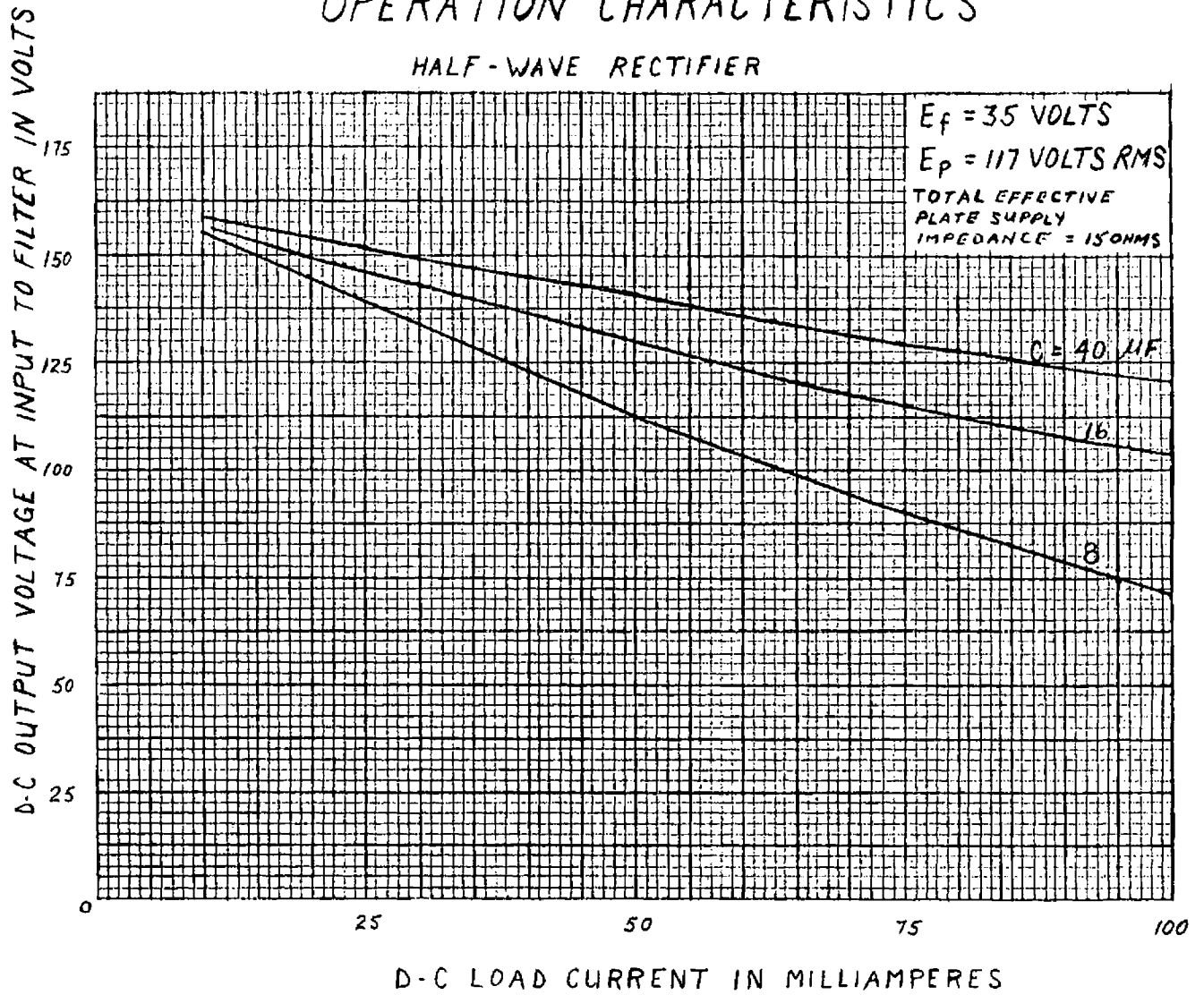
|                                                  |    |       |       |
|--------------------------------------------------|----|-------|-------|
| Tube Voltage Drop:                               |    |       |       |
| Measured with Applied D-C at 200 Milliamperes .. | 18 | ..... | Volts |

## TYPICAL CIRCUIT



# OPERATION CHARACTERISTICS

## HALF-WAVE RECTIFIER



## AVERAGE PLATE CHARACTERISTICS

