

RADIO VALVE COMPANY LIMITED

Description and Rating

HALF-WAVE HIGH-VACUUM RECTIFIER

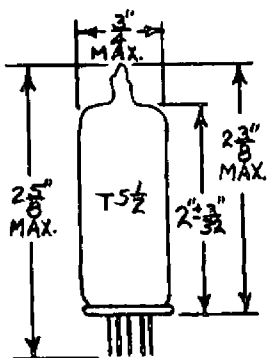
GENERAL DESCRIPTION

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-5 $\frac{1}{2}$  Glass  
 Base:.....E7-1, Miniature Button 7 Pin  
 Mounting Position:.....Any

PHYSICAL DIMENSIONS

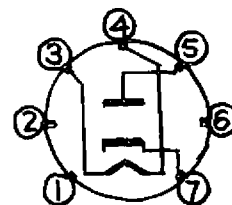


RETMA 5-3

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:

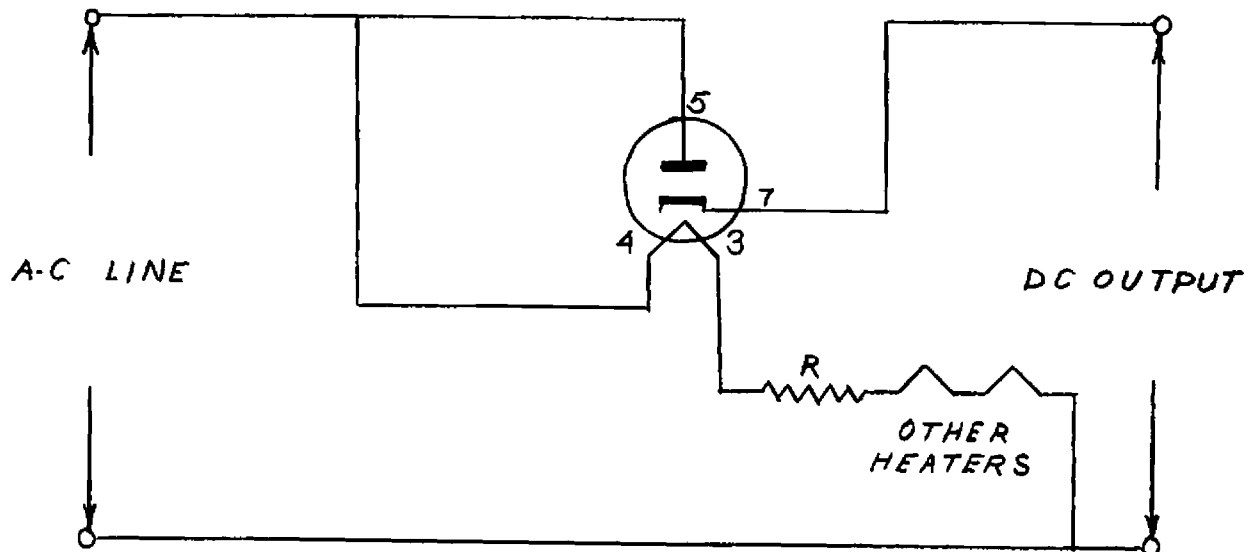
Peak Inverse Plate Voltage	.....	330	.....	Volts
Steady-State Peak Plate Current	.....	600	.....	Milliamperes
Steady-State D-C Output Current	.....	100	.....	Milliamperes
Peak Heater-Cathode Voltage	.....	330	.....	Volts

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

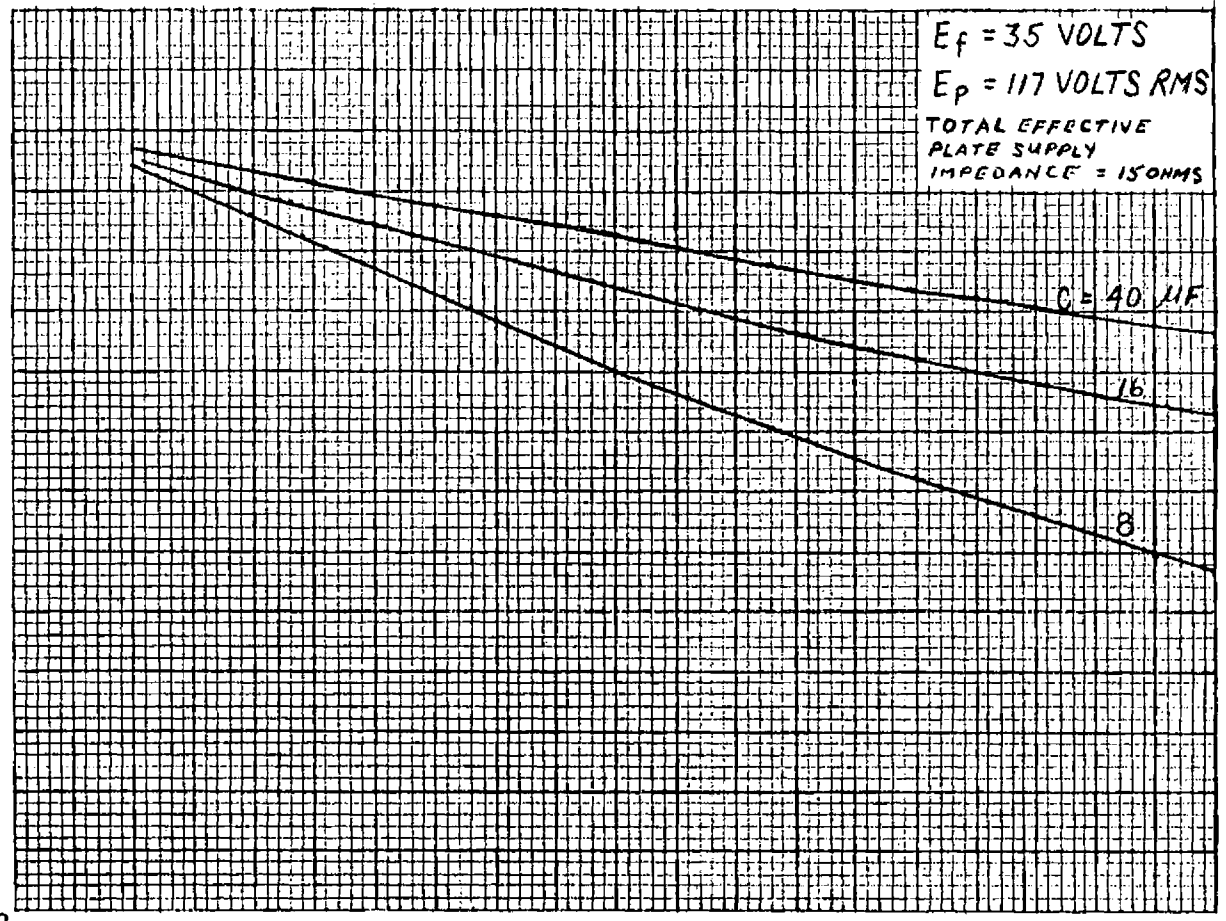
TYPICAL CIRCUIT



# OPERATION CHARACTERISTICS

## HALF-WAVE RECTIFIER

D-C OUTPUT VOLTAGE AT INPUT TO FILTER IN VOLTS



0 25 50 75 100

D-C LOAD CURRENT IN MILLIAMPERES

### AVERAGE PLATE CHARACTERISTICS

