

117Z6-GT

Description and Rating

HIGH-VACUUM RECTIFIER DOUBLER



GENERAL DESCRIPTION

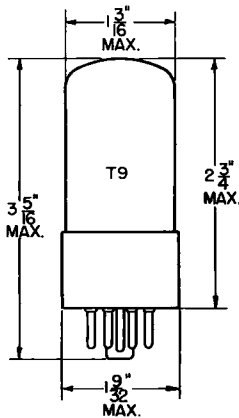
Principal Application: The 117Z6-GT is a full-wave rectifier designed for use in three-way portable receivers. Except for a common heater, the rectifier

Cathodes Coated Unipotential
 Heater Voltage (A-C or D-C) 117 Volts
 Heater Current 0.075 Ampere

sections are separate, permitting the tube to be used as a full-wave or a half-wave rectifier, or as a voltage doubler.

Envelope T-9, Glass
 Base B7-7, Intermediate Shell Octal 7-Pin
 Mounting Position Any

PHYSICAL DIMENSIONS

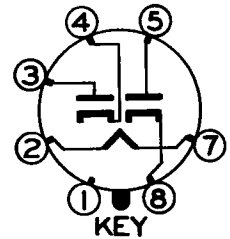


RTMA 9-11

TERMINAL CONNECTIONS

- Pin 1 - No Connection
- Pin 2 - Filament
- Pin 3 - Plate (Section 2)
- Pin 4 - Cathode (Section 2)
- Pin 5 - Plate (Section 1)
- Pin 7 - Filament
- Pin 8 - Cathode (Section 1)

BASING DIAGRAM



RTMA 7Q
 BOTTOM VIEW

DESIGN CENTER VALUES

| | | |
|-----------------------------------------------------|---------------|--------------|
| Peak Inverse Plate Voltage | 700 | Volts |
| A-C Plate Supply Voltage per Plate | 235 | Volts |
| Steady State Peak Plate Current per Plate | 360 | Milliamperes |
| D-C Output Current per Plate | 60 | Milliamperes |
| D-C Heater-Cathode Voltage | 350 | Volts |

MAXIMUM RATINGS

CHARACTERISTICS AND TYPICAL OPERATION

| | Half-Wave Rectifier | | | Voltage Doubler | | |
|------------------------------------------------------------------------|---------------------|-----------|-----------|-----------------|-----------|--------------|
| | Half-Wave | Full-Wave | | Half-Wave | Full-Wave | |
| A-C Plate Voltage per Plate | 117 . . . | 150 . . . | 235 . . . | 117 . . . | 117 . . . | Volts |
| Filter Input Capacitor | 40 . . . | 40 . . . | 40 . . . | 40 . . . | 40 . . . | Microfarads |
| Total Effective Plate Supply Impedance per Plate # (Minimum) | 15 . . . | 40 . . . | 100 . . . | 30 . . . | 15 . . . | Ohms |
| D-C Output Current per Plate | 60 . . . | 60 . . . | 60 . . . | 60 . . . | 60 . . . | Milliamperes |

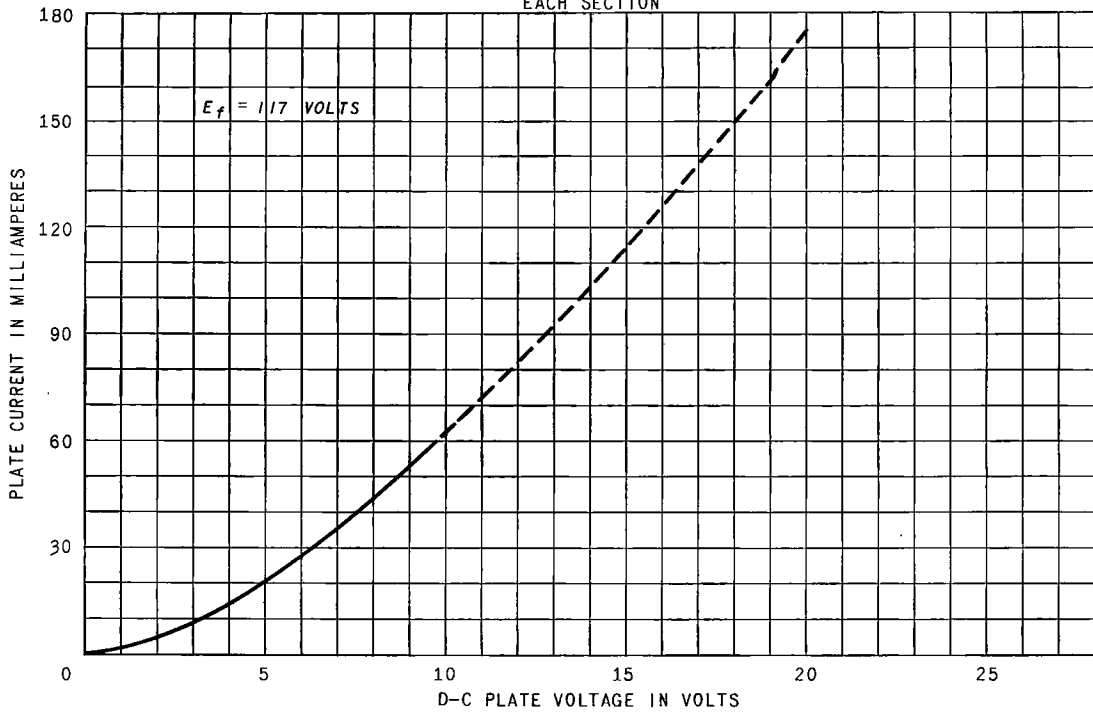
Tube Voltage Drop:

Measured with Applied D-C at 120 Milliamperes per Plate 15.5 Volts

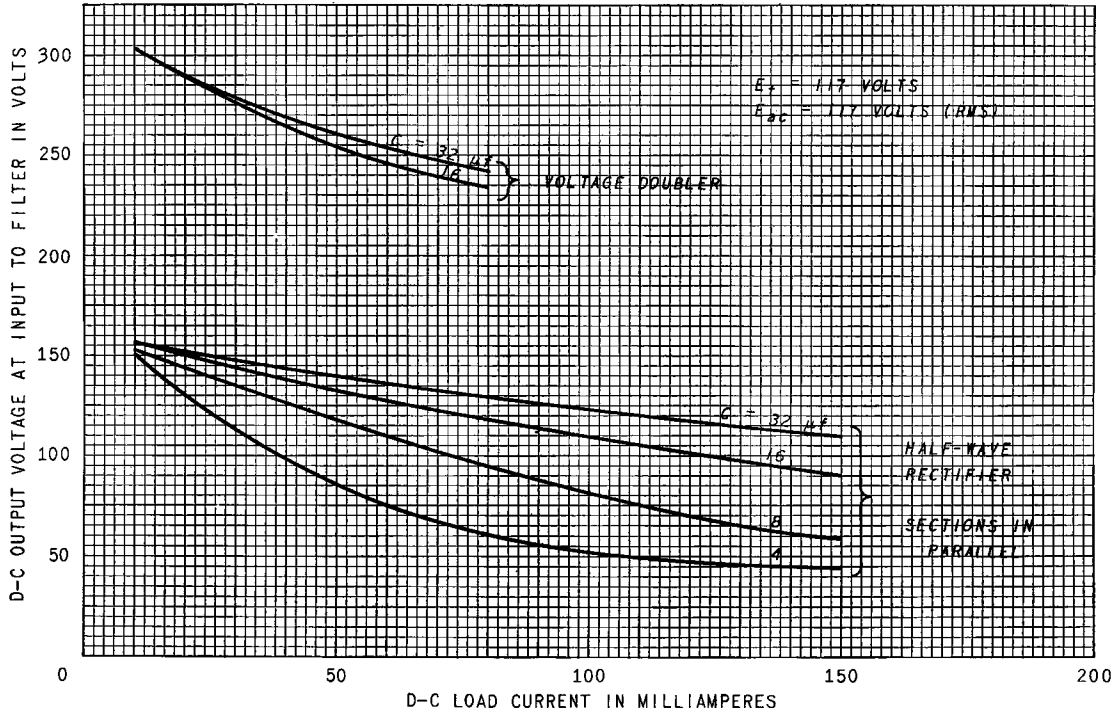
When a filter capacitor larger than 40 microfarads is used, it may be necessary to add additional plate supply impedance to limit the peak plate current.



AVERAGE PLATE CHARACTERISTICS
EACH SECTION



OPERATION CHARACTERISTICS



TUBE DEPARTMENT



Schenectady 5, N. Y.