The 36AM3 is a miniature half-wave rectifier designed for use in line-operated equipment having series-connected, 100-milliampere heaters. The heater is tapped to allow a portion of it to be used as a current-limiting resistor.

**GENERAL**

Cathode—Coated Unipotential

Heater Voltage*:
- Between Pins 3 and 4: \(36 \pm 10\%\) Volts
- Between Pins 3 and 6: \(32 \pm 10\%\) Volts

Heater Current: \(0.1\) Amperes

**MECHANICAL**

Mounting Position—Any

Envelope—T-5½, Glass

Base—E7-1, Miniature Button 7-Pin

**MAXIMUM RATINGS**

**RECTIFIER SERVICE—DESIGN-MAXIMUM VALUES**

- Peak Inverse Plate Voltage: \(365\) Volts
- Steady-State Peak Plate Current: \(530\) Milliamperes
- DC Output Current: \(82\) Milliamperes

Heater Cathode Voltage

- Heater Positive with Respect to Cathode:
  - DC Component: \(100\) Volts
  - Total DC and Peak: \(200\) Volts

- Heater Negative with Respect to Cathode:
  - DC Component: \(350\) Volts
  - Total DC and Peak: \(350\) Volts

**TERMINAL CONNECTIONS**

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

**PHYSICAL DIMENSIONS**

The tubes and arrangements disclosed herein may be covered by patents of General Electric Company or others. Neither the disclosure of any information herein nor the sale of tubes by General Electric Company conveys any license under patent claims covering combinations of tubes with other devices or elements. In the absence of an express written agreement to the contrary, General Electric Company assumes no liability for patent infringement arising out of any use of the tubes with other devices or elements by any purchaser of tubes or others.
CHARACTERISTICS AND TYPICAL OPERATION

HALF-WAVE RECTIFIER WITH CAPACITOR-INPUT FILTER

AC Plate-Supply Voltage, RMS .................................................. 117 Volts
Filter Input Capacitor .......................................................... 40 Microfarads
Total Plate-Supply Resistance †
DC Output Current .............................................................. 75 Milliamperes
DC Output Voltage at Filter Input ......................................... 105 Volts
Tube Voltage Drop
  $I_b = 150$ Milliamperes DC .................................................. 20 Volts

* The heater tap is provided to allow a portion of the heater to be used as a current-limiting resistor (See schematic). It is not intended for panel-lamp operation.
† The portion of the heater between pins 4 and 6 has an approximate resistance 45 ohms when the output current of the rectifier is 82 milliamperes.
AVERAGE PLATE CHARACTERISTICS

$E_f = \text{Rated Value}$

PLATE VOLTAGE IN VOLTS

PLATE CURRENT IN MILLIAMPERES

K-55611-T098-1

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