



36AM3

36AM3 HALF-WAVE VACUUM RECTIFIER

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater $\blacklozenge$, for Unipotential Cathode:

Voltage (AC or DC):

Entire heater (Pins 3 and 4) $36 \pm 10\%$ voltsTap-section (Pins 3 and 6) $32 \pm 10\%$ volts

Current:

Tap-section (Pins 3 and 6) 0.1 amp

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-5/8"

Maximum Seated Length. 2-3/8"

Length, Base Seat to Bulb Top (Excluding tip) . . . 2" $\pm 3/32$ "

Diameter. 0.650" to 0.750"

Dimensional Outline See General Section

Bulb. T5-1/2

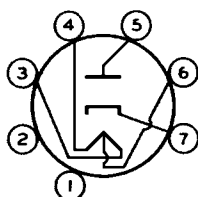
Base. Small-Button Miniature 7-Pin (JEDEC No. E7-1)

Basing Designation for BOTTOM VIEW. 5BQ

Pin 1 - No Connection

Pin 2 - No Connection

Pin 3 - Heater



Pin 4 - Heater

Pin 5 - Plate

Pin 6 - Heater Tap

Pin 7 - Cathode

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Maximum Ratings, Design-Maximum Values:

PEAK INVERSE PLATE VOLTAGE. 365 max. volts

PEAK PLATE CURRENT. 530 max. ma

DC OUTPUT CURRENT. 82 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . . 350 $\uparrow$ max. voltsHeater positive with respect to cathode . . . 200 Δ max. volts

Typical Operation:

In accompanying typical half-wave circuit with capacitor input to filter

AC Plate Supply Voltage (RMS) 117 volts

Filter-Input Capacitor. 40 μ f

Total Effective Plate

Supply Resistance $\blacklozenge$

DC Output Current 75 ma

DC Output Voltage 105 volts

Characteristics:

Tube-Voltage Drop for plate ma. = 150 . . . 20 volts

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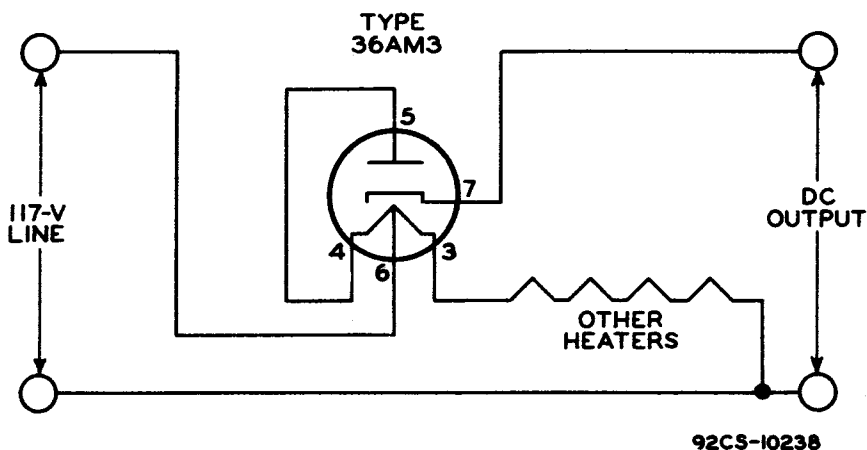
- ♦ See Operating Considerations.
† The dc component must not exceed 350 volts.
▲ The dc component must not exceed 100 volts.

OPERATING CONSIDERATIONS

The *heater* of the 36AM3 is designed so that the heater section between pins 4 and 6 is used as a limiting resistance in the rectifier plate circuit (See accompanying *Typical Half-Wave Circuit*).

This type is *not* designed for use with a panel lamp where the heater section between pins 4 and 6 is used as a panel-lamp shunt.

TYPICAL HALF-WAVE CIRCUIT



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