



36AM3

# 36AM3 HALF-WAVE VACUUM RECTIFIER

7-PIN MINIATURE TYPE

## GENERAL DATA

### Electrical:

Heater  $\heartsuit$ , for Unipotential Cathode:

Voltage (AC or DC):

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

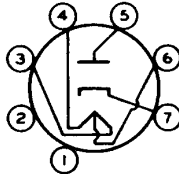
Current:

Tap-section (Pins 3 and 6) . . . . .	0.1	amp
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### 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

## HALF-WAVE RECTIFIER

### 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 <sup>†</sup> max.	volts
Heater positive with respect to cathode . . . . .	200 <sup>▲</sup> 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	$\mu$ f
Total Effective Plate Supply Resistance . . . . . $\heartsuit$		
DC Output Current . . . . .	75	ma
DC Output Voltage . . . . .	105	volts

### Characteristics:

Tube-Voltage Drop for plate ma. = 150 . . . . .	20	volts
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## HALF-WAVE VACUUM RECTIFIER

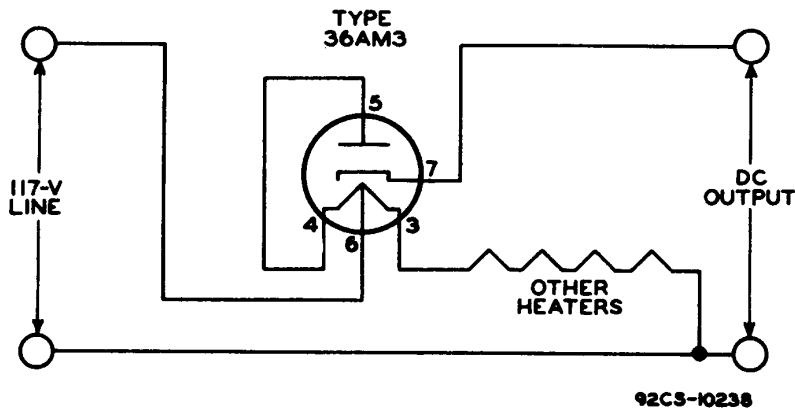
- ♦ See Operating Considerations.
- † The dc component must not exceed 350 volts.
- ▲ The dc component must not exceed 100 volts.

### 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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