

Half-Wave Vacuum Rectifier

7-PIN MINIATURE TYPE
Supersedes Type 36AM3

GENERAL DATA

Electrical:

Heater[▲], for Unipotential Cathode:

Voltage (AC or DC):

Entire heater (Pins 3 and 4)	36	volts
Tap-section (Pins 3 and 6)	32	volts

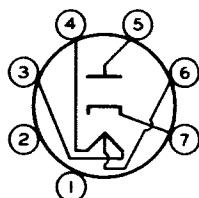
Current:

Tap-section (Pins 3 and 6)	0.1 ± 6%	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" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
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 [●]	max.	volts
Heater positive with respect to cathode	200 [★]	max.	volts

Typical Operation:

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

AC Plate Supply Voltage (RMS)	120	volts
Filter-Input Capacitor	40	μf
Total Effective Plate Supply Resistance	▲	
DC Output Current	75	ma
DC Output Voltage at Input to Filter (Approx.)	118	volts



36AM3-A

Characteristics:

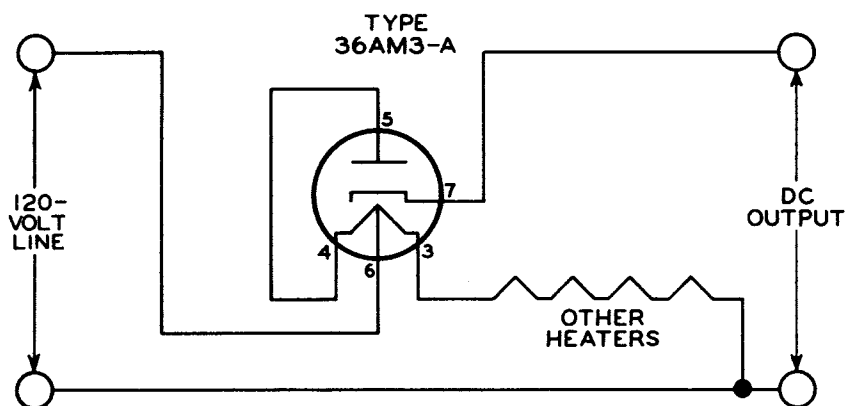
Tube-Voltage Drop for plate ma. = 150 . . . 16 volts

▲ The heater of the 36AM3-A 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.

● The DC component must not exceed 350 volts.

★ The DC component must not exceed 100 volts.

TYPICAL HALF-WAVE CIRCUIT



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