

Half-Wave Vacuum Rectifier

7-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

GENERAL DATA

Electrical:

Heater^a, 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) $0.1 \pm 6\%$ amp

Warm-up time (Average) 20 sec

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

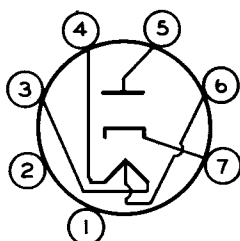
Base Small-Button Miniature 7-Pin (JEDEC No. E7-1)

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^b max. volts

Heater positive with respect to cathode 200^c max. volts

Typical Operation:

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

AC Plate Supply Voltage (RMS) 120 volts

Filter-Input Capacitor 40 μ f

Total Effective Plate Supply Resistance ^a

DC Output Current 75 ma

DC Output Voltage at Input to Filter (Approx.) 118 volts



36AM3B

Characteristics:

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

- a The heater of the 36AM3B 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.
- b The DC component must not exceed 350 volts.
- c The DC component must not exceed 100 volts.

TYPICAL HALF-WAVE CIRCUIT

