

## Full-Wave Gas and Mercury-Vapor Rectifier

### GENERAL DATA

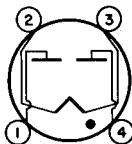
#### Electrical:<sup>a</sup>

|   |            |       |
|---|------------|-------|
| Filament, Coated:                                       |            |       |
| Voltage (AC) . . . . .                                  | 2.5        | volts |
| Current at 2.5 volts . . . . .                          | 11.5 ± 1.0 | amp   |
| Minimum heating time prior to tube conduction . . . . . | 15         | sec   |
| Typical Anode Starting Voltage . . . . .                | 10         | volts |
| Peak Tube Voltage Drop at anode amperes = 5 . . . . .   | 10         | volts |

#### Mechanical:

|                                  |  |
|----------------------------------|--|
| Operating Position . . . . .     | Vertical, base down                                    |
| Maximum Overall Length . . . . . | 7-1/2"   |
| Maximum Diameter . . . . .       | 2-1/16"  |
| Weight (Approx.) . . . . .       | 5 oz   |
| Bulb . . . . .                   | T16  |
| Socket . . . . .                 | Super-Jumbo 4-Contact                                  |
| Base . . . . .                   | Medium-Metal-Shell Super-Jumbo 4-Pin (JEDEC No. A4-81) |

Basing Designation for BOTTOM VIEW . . . . . 4BS



Pin 1 - Anode No.2  
Pin 2 - Filament

Pin 3 - Filament  
Pin 4 - Anode No.1

#### Thermal:

|   |            |
|---|------------|
| Type of Cooling . . . . .   | Convection |
| Temperature Rise of Condensed Mercury to Equilibrium Above Ambient Temperature (Approx.): |            |
| No load . . . . .   | 18 °C      |
| Full load . . . . .   | 28 °C      |

### FULL-WAVE RECTIFIER<sup>a</sup>

#### Maximum and Minimum Ratings, Absolute-Maximum Values:

*For power-supply frequency of 60 cps*

|  |          |       |
|--|----------|-------|
| PEAK INVERSE ANODE VOLTAGE . . . . .                                   | 900 max. | volts |
| ANODE CURRENT (Each Anode):  |          |       |
| Peak . . . . .   | 10 max.  | amp   |
| Average <sup>b</sup> . . . . .   | 2.5 max. | amp   |
| Fault . . . . .  | 150 max. | amp   |
| CONDENSED-MERCURY TEMPERATURE RANGE (Operating) <sup>c</sup> . . . . . | 0 to +90 | °C    |



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- a With circuit returns to filament-transformer center-tap.
- b Averaged over any interval of 5 seconds maximum.
- c For longest life, the operating condensed-mercury temperature range after warm-up should be kept between  $+40^{\circ}$  and  $+90^{\circ}$  C which corresponds approximately to  $+15^{\circ}$  to  $+65^{\circ}$  C ambient.

