

## Full-Wave Gas and Mercury-Vapor Rectifier

### GENERAL DATA

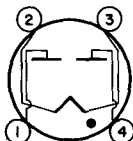
#### Electrical:<sup>a</sup>

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

