

# Half-Wave Gas and Mercury-Vapor Rectifier

## GENERAL DATA

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

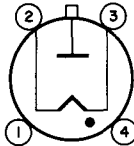
Filament, Coated:

Voltage (AC) . . . . .	2.5	volts
Current at 2.5 volts. . . . .	18 ± 2	amp
Minimum heating time prior to tube conduction. . . . .	60	sec
Typical Anode Starting Voltage. . . . .	20	volts
Peak Tube Voltage Drop at anode amperes = 20. . . . .	9	volts

### Mechanical:

Operating Position. . . . .	Vertical, base down
Maximum Overall Length. . . . .	9-1/2"
Maximum Diameter. . . . .	2-1/16"
Weight (Approx.). . . . .	6 oz
Bulb. . . . .	T16
Cap . . . . .	Medium (JEDEC No.C1-5)
Socket. . . . .	Super-Jumbo 4-Contact
Base. . . . .	Medium-Metal-Shell Super-Jumbo 4-Pin
Terminal Diagram:	BOTTOM VIEW

Pin 1 - No Internal Connection  
Pin 2 - Filament  
Pin 3 - Filament



Pin 4 - No Internal Connection  
Cap - Anode

### Thermal:

Type of Cooling . . . . .	Convection
Temperature Rise of Condensed Mercury to Equilibrium Above Ambient	
Temperature (Approx.) . . . . .	30 °C

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

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

*For power-supply frequency of 60 cps*

PEAK INVERSE ANODE VOLTAGE. . . . .	1000 max.	volts
ANODE CURRENT:		
Peak. . . . .	77 max.	amp
Average <sup>b</sup> . . . . .	6.4 max.	amp
Fault . . . . .	770 max.	amp
CONDENSED-MERCURY TEMPERATURE RANGE (Operating) <sup>c</sup> . . . . .	-40 to +100	°C



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- <sup>a</sup> With circuit returns to filament-transformer center-tap.
- <sup>b</sup> Averaged over any interval of 20 seconds maximum.
- <sup>c</sup> For longest life, the operating condensed-mercury temperature range after warm-up should be kept between  $+40^{\circ}$  and  $+100^{\circ}$  C which corresponds approximately to  $+10^{\circ}$  to  $+70^{\circ}$  C ambient.

