

Half-Wave Gas and Mercury-Vapor Rectifier

GENERAL DATA

Electrical:^a

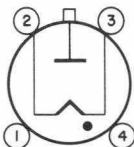
Filament, Coated:

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^a

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 ^b	6.4 max.	amp
Fault	770 max.	amp
CONDENSED-MERCURY TEMPERATURE RANGE (Operating) ^c	-40 to +100	°C



635/7019

- ^a With circuit returns to filament-transformer center-tap.
- ^b Averaged over any interval of 20 seconds maximum.
- ^c 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.

