

Half-Wave Mercury-Vapor Rectifier

GENERAL DATA

Electrical:^a

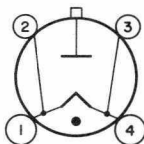
Filament, Coated:

Voltage (AC)	2.5	volts
Current at 2.5 volts	7 ± 1	amp
Minimum heating time prior to tube conduction	20	sec
Typical Anode Starting Voltage	13	volts
Peak Tube Voltage Drop at anode amperes = 8	12	volts

Mechanical:

Operating Position	Vertical, base down
Maximum Overall Length	6-3/8"
Maximum Diameter	2-1/16"
Weight (Approx.)	4 oz
Bulb	ST16
Cap	Medium (JEDEC No.C1-5)
Socket	Small 4-Contact
Base	Medium-Shell Small 4-Pin with Bayonet (JEDEC No.A4-10)
Basing Designation for BOTTOM VIEW	4AU

Pin 1-Filament
Pin 2-Filament
Pin 3-Filament



Pin 4-Filament
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	2000 max.	volts
ANODE CURRENT:		
Peak	10 max.	amp
Average ^b	2.5 max.	amp
Fault	250 max.	amp
CONDENSED-MERCURY TEMPERATURE RANGE (Operating)	+35 to +80	°C

^a with circuit returns to filament-transformer center-tap.

^b Averaged over any interval of 5 seconds maximum.



