Half-Wave Mercury-Vapor Rectifier

**GENERAL DATA**

**Electrical:**
- Filament, Coated:
  - Voltage (AC) ................. 2.5 volts
  - Current at 2.5 volts ........ 7 ± 1 amp
  - Minimum heating time prior to tube condution .......... 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
- 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 Diagram]
- 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**

**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 ........ 2.5 max. amp
  - Fault .......... 250 max. amp
- CONDENSED-MERCURY TEMPERATURE RANGE (Operating) ........ +35 to +80 °C

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* With circuit returns to filament-transformer center-tap.

b Averaged over any interval of 5 seconds maximum.