Full-Wave Gas and Mercury-Vapor Rectifier

GENERAL DATA

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

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 .................. 2.5 max. amp
  - Fault .................. 150 max. amp
- CONDENSED-MERCURY TEMPERATURE RANGE (Operating) ........ 0 to +90 °C
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° and +90° C which corresponds approximately to +15° to +65° C ambient.