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## HALF-WAVE MERCURY-VAPOR RECTIFIER

DATA**Electrical:**

Heater, for Unipotential Cathode:

|                            |    |       |
|----------------------------|----|-------|
| Voltage*                   | 5  | volts |
| Current                    | 10 | amp   |
| Peak Voltage Drop(Approx.) | 15 | volts |

**Mechanical:**

|                   |                                              |
|-------------------|----------------------------------------------|
| Mounting Position | Vertical, Base Down                          |
| Overall Length    | 11" $\pm$ 1/4 "                              |
| Maximum Diameter  | 3-13/16"                                     |
| Bulb              | ST-30                                        |
| Cap               | 3917                                         |
| Base              | Large Metal-Shell Super-Jumbo 4-Pin, Bayonet |

**Maximum Ratings, Absolute Values:**

|                                        | Continuous<br>Service | Welder-<br>Control<br>Service |       |
|----------------------------------------|-----------------------|-------------------------------|-------|
| PEAK INVERSE ANODE VOLTAGE             | 3000 max.             | 10000 max.                    | volts |
| INSTANTANEOUS ANODE CURRENT:           |                       |                               |       |
| Below 25 Cycles                        | 12.8 max.             | 8 max.                        | amp   |
| 25 Cycles and Higher                   | 40 max.               | 16 max.                       | amp   |
| AVERAGE ANODE CURRENT#                 | 6.4 max.              | 4 max.                        | amp   |
| SURGE ANODE CURRENT for                |                       |                               |       |
| 0.1 sec. max.                          | 200 max.              | 80 max.                       | amp   |
| COND.-MERCURY TEMP. RANGE <sup>□</sup> | 40 - 80               | 25 - 50                       | °C    |

\* Heater voltage must be applied at least 5 minutes before anode voltage is applied.

# Averaged over any 15-second interval.

□ Recommended condensed-mercury temperature 40°C.

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