

MAZDA

U.301

EFFICIENCY DIODE

Indirectly heated—for series operation

U.301

RATING

| | | | |
|---|-------------------|-------|---------|
| Heater Current (amps) | I_h | | 0.2 |
| Heater Voltage (volts) | V_h | | 28 |
| Maximum Peak Inverse Anode Voltage (volts) | P.I.V.(max) | | * 4,500 |
| Maximum Mean Anode Current (mA) | $I_a(av)max.$ | 120 | 150 |
| Maximum Peak Anode Current (mA) | $I_a(pk)$ | 600 | 450 |
| Maximum Heater to Cathode Voltage with Heater negative (Volts D.C. + peak A.C.) | $V_{h-k}(max)$ | § 900 | |
| Maximum Peak Pulse Heater to Cathode Voltage with Heater negative (volts) | $V_{h-k}(pk)max.$ | | * 4,500 |
| Maximum Peak Pulse Heater to Anode Voltage with Heater positive (volts) | $V_{h-a}(pk)max.$ | | * 3,000 |

NOTE When the anode is pulsed it is recommended that contacts 1 and 6 on the valvholder should be removed.

- Rated for Television Line Scan where the duty cycle does not exceed 15% and the pulse duration does not exceed 15 μ secs. 4.5 k.V. is the design centre value. The absolute rating of 5.3 k.V. should not be exceeded.

§ Measured with respect to the higher potential heater pin. The D.C. component should not exceed 600 volts.

INTER-ELECTRODE CAPACITANCES

| | | |
|------------------------|-------------|-----|
| Anode/All (μ F) | C_{a-all} | 7.7 |
| Cathode/All (μ F) | C_{k-all} | 9.0 |

DIMENSIONS

| | | |
|---------------------------------|--|-----------------|
| Maximum Overall Length (mm) | | 107 |
| Maximum Diameter (mm) | | 32 |
| Maximum Seated Height (mm) | | 94 |
| Approximate Nett Weight (ozs) | | 1 $\frac{1}{4}$ |
| Approximate Packed Weight (ozs) | | 1 $\frac{3}{4}$ |

MOUNTING POSITION - Unrestricted.

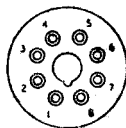
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BULB - ClearCAP CTL.BASE - International Octal

Viewed from free end of pins.

CONNECTIONS

| | | |
|---------|-----------------------|------|
| Pin 1 | Omitted | - |
| Pin 2 | • Internal Connection | 1.c. |
| Pin 3 | • Internal Connection | 1.c. |
| Pin 4 | Omitted | - |
| Pin 5 | Anode | a |
| Pin 6 | Omitted | - |
| Pin 7 | Heater | h |
| Pin 8 | Heater | h |
| Top Cap | Cathode | k |

"Internal Connection" indicates that the pin is connected to an electrode for the purpose of improving mechanical rigidity. The connection may not always be made to the same electrode on a given valve type, and it is essential that the corresponding valve holder socket be left unconnected.