

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 valveholder 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 $\frac{1}{2}$
Approximate Packed Weight (ozs)		1 $\frac{3}{4}$

MOUNTING POSITION - Unrestricted.

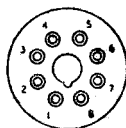
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BULB - ClearCAP CTL.BASE - International Octal

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.