

GENERAL

The UI91 is intended for use as an Efficiency Diode in television receivers having series connected heaters and is suitable for A.C./D.C. operation.

RATING

Heater Current (amps)	I_h	0.3	
Heater Voltage (volts)	V_h	19.0	
Maximum Peak Inverse Anode P.I.V. (max)		4.5*‡	
Voltage (kV)			
Maximum Anode Current (mean) (mA)	I_a (av) max	120	150
Maximum Anode Current (peak) (mA)	I_a (pk) max	600	450
Maximum Heater-Cathode Voltage (volts) (h—ve, D.C. + Peak A.C.)	$V_{h-k}(\text{max})$	900†	
Maximum Heater-Cathode Voltage (h—ve, pulse) (kV)	V_{h-k} (pk) max	4.5*‡	
Maximum Heater to Anode Volts (h+ve pulse) (kV)	V_{a-h} (max)	3*	

* Rated for T.V. Line Scan where the duty cycle does not exceed 15% and the pulse duration does not exceed 15 μ secs.

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

‡ 4.5 kV is a Design Centre Rating. The absolute rating of 5.3 kV must not be exceeded.

INTER-ELECTRODE CAPACITANCES (pF)

Anode to Heater plus Cathode	$c_{a-h,k}$	7.7
Cathode to Heater plus Anode	$c_{k-h,a}$	9.0

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EFFICIENCY DIODE

Indirectly heated—for series operation

DIMENSIONS

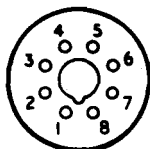
Maximum Overall Length (mm)	90
Maximum Diameter (mm)	32
Maximum Seated Height (mm)	77
Approximate Nett Weight (ozs)	1 $\frac{1}{4}$
Approximate Packed Weight (ozs)	2 $\frac{1}{4}$

MOUNTING POSITION—Unrestricted.

BULB—Clear

TOP CAP—CT1

BASE—International Octal (IO5)



Viewed from Free End of Pins

CONNECTIONS

Pin 1	No Pin	NP
Pin 2	Internal Connection	IC
Pin 3	Internal Connection	IC
Pin 4	No Pin	NP
Pin 5	Anode	a
Pin 6	No Pin	NP
Pin 7	Heater	h
Pin 8	Heater	h
Cap	Cathode	k

NOTE: When the anode is pulsed, it is recommended that contacts 1 and 6 on the valve holder should be removed.

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