### MAZDA UI9I

# EFFICIENCY DIODE Indirectly heated—for series operation

### **GENERAL**

The U191 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)	l <sub>h</sub>		0.3
Heater Voltage (volts)	$V_h$		19.0
Maximum Peak Inverse Anode Voltage (kV)	P.I.V. (max)		4·5*‡
Maximum Anode Current			
(mean) (mA)	la (av) max	120	150
Maximum Anode Current	` '		
(peak) (mA)	la (pk) max	600	450
Maximum Heater-Cathode	(r )		
Voltage (volts) (h-ve, D.C	-		
+ Peak A.C.)	V <sub>h-k(max)</sub>		900†
Maximum Heater-Cathode	` ,		
Voltage (h—ve, pulse) (kV)	Vh-k (pk) max		4.5*‡
Maximum Heater to Anode	4 7		
Volts (h+ve pulse) (kV)	V <sub>a-h</sub> (max)		3*

- \* Rated for T.V. Line Scan where the duty cycle does not exceed 15% and the pulse duration does not exceed 15 \u03c4 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	ca-h.k	7.7
Cathode to Heater plus Anode	c <sub>k-h.a</sub>	9-0

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### DIMENSIONS

J191

Maximum Overall Length (mm)	90
Maximum Diameter (mm)	32
Maximum Seated Height (mm)	77
Approximate Nett Weight (ozs)	<u>1</u>
Approximate Packed Weight (ozs)	2 <del>1</del> /4

MOUNTING POSITION—Unrestricted.

BULB-Clear

TOP CAP-CTI

BASE—International Octal (IO5)



### Viewed from Free End of Pins

### CONNECTIONS

Pin (	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
Can	Cathode	k

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

March, 1957

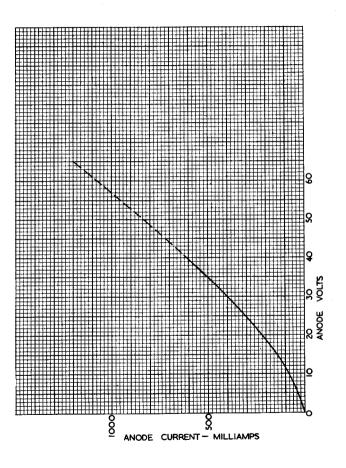
VALVE & CRT DIVISION

Issue 1/2

SIEMENS EDISON SWAN LIMITED

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