

EDISWAN

MAZDA

U193

EFFICIENCY DIODE

Indirectly heated—for series operation

TENTATIVE

U193

GENERAL

The U193 is an Efficiency Diode, designed for use in the line output stage of television receivers using 110° and 114° cathode ray tubes. The basing is B9A (Noval) with the cathode brought out to a top cap connection.

RATING

Heater Current	i_h	0.3	A
Heater Voltage	V_h	19	V
Maximum Peak Inverse Voltage	P.I.V.(max)	5.5kV*	†
Maximum Mean Anode Current	$i_{a(av)}\text{max}$	150	mA
Maximum Peak Anode Current	$i_{a(pk)}\text{max}$	450	mA
Maximum Peak Heater/Cathode Voltage (Heater negative)	$v_{h-k(pk)}\text{max}$	5.5kV*	†

* Rated for television line scan where the duty cycle does not exceed 15% and the pulse duration does not exceed 15 μ secs.

† 5.5kV is a design centre rating. The absolute rating of 6.6 kV must not be exceeded.

INTER-ELECTRODE CAPACITANCES (pF)

Anode to Heater plus Cathode	$c_{a-h,k}$	§ 6.6	† 7.8	†† 10.0
Cathode to Heater plus Anode	$c_{k-h,a}$	§ 7.9	† 8.0	†† 8.0

§ Interelectrode capacities in fully shielded socket without can.

† Interelectrode capacities with holder capacity balanced out.

†† Total interelectrode capacity including B9A Nylon Phenolic Holder without skirt or radial shield (Clix type VH19/902).

December, 1960

ADVANCE DATA

Associated Electrical Industries Limited

RADIO & ELECTRONIC COMPONENTS DIVISION

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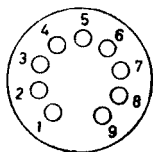
DIMENSIONS

Maximum Overall Length	82 mm
Maximum Diameter	22.2 mm
Maximum Seated Height	75 mm

MOUNTING POSITION—Unrestricted.

TOP CAP—CT1.

BASE—Noval (B9A).



Viewed from free end of pins.

CONNECTIONS

Pin 1	Internal Connection	IC
Pin 2	Internal Connection	IC
Pin 3	Internal Connection	IC
Pin 4	Heater	h
Pin 5	Heater	h
Pin 6	Internal Connection	IC
Pin 7	Internal Connection	IC
Pin 8	Internal Connection	IC
Pin 9	Anode	a
CAP	Cathode	k

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