

# 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	$i_{a(av)}max$	150	mA
Maximum Peak Anode Current	$i_{a(pk)}max$	450	mA
Maximum Peak Heater/Cathode Voltage (Heater negative)	$v_{h-k(pk)}max$	5.5kV*	†

\* Rated for television line scan where the duty cycle does not exceed 15% and the pulse duration does not exceed 15  $\mu$ 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	$c_{a-h,k}$	§	†	††
Cathode to Heater plus Anode	$c_{k-h,a}$	6.6	7.8	10.0
		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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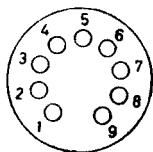
DIMENSIONS

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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