

TUBES

Diode

2AV2

FOR TV HIGH-VOLTAGE RECTIFIER APPLICATIONS

The 2AV2 is a miniature filamentary diode designed for use in television receivers as the high-voltage rectifier in flyback types of power supplies.

GENERAL

ELECTRICAL

Cathode - Coated Filament Filament Characteristics and Ratings Filament Voltage, AC or DC* . . 1.8±0.27 Volts Filament Current‡. 0.225 Amperes Direct Interelectrode Capacitances, approximate§

MECHANICAL

Operating Position - Any

Maximum Seated Height . .

Envelope - T-6 1/2, Glass Base - E9-1, Small Button 9-Pin Outline Drawing - EIA 6-2 Maximum Diameter . . 0.875 Inches Minimum Diameter . . . 0.750 Inches Maximum Over-all Length. . 2.187 Inches

MAXIMUM RATINGS

FLYBACK RECTIFIER SERVICE®

Peak Inverse Plate Voltage

Plate to Filament (p to f). . .

DESIGN-MAXIMUM VALUES UNLESS OTHERWISE INDICATED

DC Component Total DC and Peak (Absolute-Maximum Value) . Steady-State Peak Plate Current.

. 7000 Volts . 8250 Volts 50 Milliamperes 0.6 Milliamperes

. 1.937

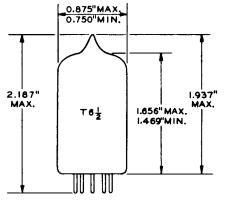
Inches

Design-Maximum ratings are limiting values of operating and environmental conditions applicable to a bogey electron tube of a specified type as defined by its published data and should not be exceeded under the worst probable conditions.

The tube manufacturer chooses these values to provide acceptable serviceability of the tube, making allowance for the effects of changes in operating conditions due to variations in the characteristics of the tube under consideration.

The equipment manufacturer should design so that initially and throughout life no design-maximum value for the intended service is exceeded with a bogey tube under the worst probable operating conditions with respect to supplyvoltage variation, equipment component variation, equipment control adjustment, load variation, signal variation, environmental conditions, and variations in the characteristics of all other electron devices in the equipment.

PHYSICAL DIMENSIONS



ETA 6-2

TERMINAL CONNECTIONS

Pin 1 - Plate

#Pin 2 - Internal Connection -Do Not Use

#Pin 3 - Internal Connection -

Do Not Use Pin 4 - Filament

Pin 5 - Filament

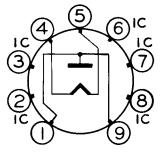
#Pin 6 - Internal Connection -

Do Not Use #Pin 7 - Internal Connection -

Do Not Use #Pin 8 - Internal Connection -

Do Not Use Pin 9 - Plate

BASING DIAGRAM



EIA 9U

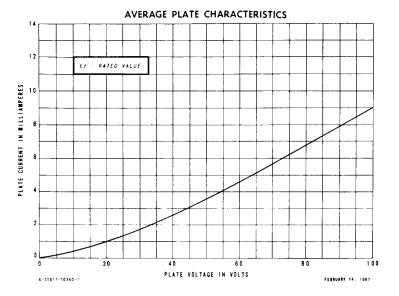
GENERAL (%) ELECTRIC



AVERAGE CHARACTERISTICS

NOTES

- * The equipment designer should design the equipment so that heater voltage is centered at the specified bogey value, with heater supply variations restricted to maintain heater voltage within the specified tolerance.
- # Heater current of a bogey tube at Ef = 1.8 volts.
- § Without external shield.
- ¶ For operation in a 525-line, 30-frame television system as described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission. The duty cycle of the voltage pulse must not exceed 15 percent of one scanning cycle.
- # Socket terminals 2, 3, 6, 7, and 8 should not be used as tie points for external-circuit components.



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TUBE DEPARTMENT



Owensboro, Kentucky