



**ELECTRONIC
INNOVATIONS
IN ACTION**

TUBES

— PRODUCT INFORMATION —

6JU8-A

Quadruple Diode

The 6JU8-A is a general-purpose quadruple diode of the 9-pin miniature type designed for use in phase-detector and noise-immune color-killer circuits of color television receivers and in FM stereo multiplex equipment.

The 6JU8-A is electrically identical to the 6JU8, but is approximately 7/16" shorter for compact equipment designs.

GENERAL

ELECTRICAL

Cathode - Coated Unipotential

Heater Characteristics and Ratings

Heater Voltage, AC or DC*	6.3±0.6	Volts
Heater Current†	0.6	Amperes

Direct Interelectrode Capacitances, approximate‡

Plate (Section 1) and Cathode (Section 2) to Cathode (Section 1)	1.8	pf
Plate (Section 1) and Cathode (Section 2) to Plate (Section 2)	2.2	pf
Plate (Section 2) to Heater and Internal Shield	0.62	pf
Plate (Section 3) and Cathode (Section 4) to Cathode (Section 3)	1.9	pf
Plate (Section 3) and Cathode (Section 4) to Plate (Section 4)	2.2	pf
Plate (Section 4) to Heater and Internal Shield	0.94	pf
Cathode (Section 1) to Heater and Internal Shield	1.8	pf
Cathode (Section 3) to Heater and Internal Shield	1.9	pf

MECHANICAL

Operating Position - Any

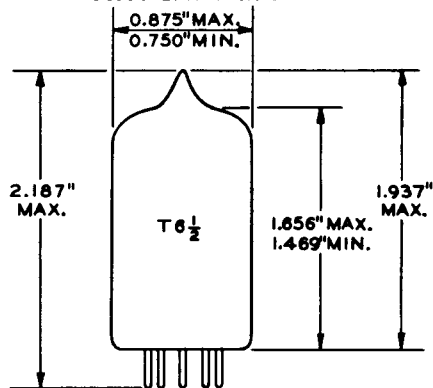
Envelope - T-6 1/2, Glass

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 Seated Height	1.937	Inches

PHYSICAL DIMENSIONS

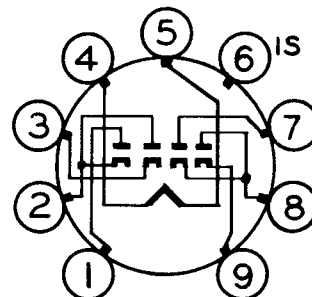


EIA 6-2

TERMINAL CONNECTIONS

- Pin 1 - Plate (Section 4)
- Pin 2 - Plate (Section 3) and Cathode (Section 4)
- Pin 3 - Cathode (Section 3)
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Internal Shield
- Pin 7 - Plate (Section 2)
- Pin 8 - Plate (Section 1) and Cathode (Section 2)
- Pin 9 - Cathode (Section 1)

BASING DIAGRAM



EIA 9PQ

The tubes and arrangements disclosed herein may be covered by patents of General Electric Company or others. Neither the disclosure of any information herein nor the sale of tubes by General Electric Company conveys any license under patent claims covering combinations of tubes with other devices or elements. In the absence of an

express written agreement to the contrary, General Electric Company assumes no liability for patent infringement arising out of any use of the tubes with other devices or elements by any purchaser of tubes or others.

MAXIMUM RATINGS

DESIGN-MAXIMUM VALUES, Each Section

Peak Inverse Plate Voltage.	300	Volts
Steady-State Peak Plate Current	54	Milliamperes
DC Output Current.	9.0	Milliamperes
Heater-Cathode Voltage		
Heater Positive with Respect to Cathode	300	Volts
Heater Negative with Respect to Cathode	300	Volts

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 supply-voltage 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.

AVERAGE CHARACTERISTICS

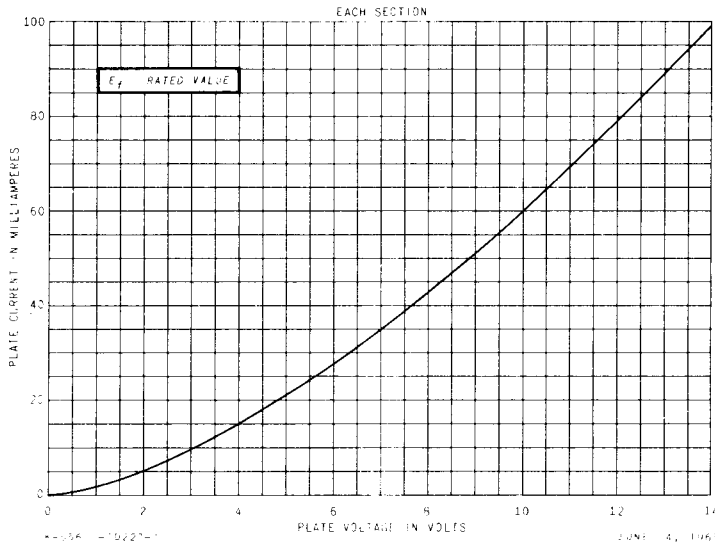
Tube Voltage Drop, Each Section

Ib = 60 Milliamperes DC.	10	Volts
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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 = 6.3 volts.
- § Without external shield.

AVERAGE PLATE CHARACTERISTICS



TUBE DEPARTMENT



Owensboro, Kentucky