

QUADRUPLE DIODE TYPE 6JU8A

The 6JU8A is a 9-pin miniature quadruple diode designed for service in color TV receivers and in stereo multiplex equipment. In color TV service the 6JU8A performs well in phase-detector and noise-immune color-killer circuits. In stereo multiplex service the 6JU8A is used in bridge-matrixing circuits. The internal connections particularly recommend the 6JU8A for the latter service.

ELECTRICAL

Cathodes	Coated Unipotential Heater:
Voltage	6.3 ± 0.6 Volts
Current	0.60 Ampere
Direct Interelectrode Capacitances: (Unshielded)	
Plate Unit 1 & Cathode Unit 2 to Cathode Unit 1	1.8 pF
Plate Unit 1 & Cathode Unit 2 to Plate Unit 2	2.2 pF
Plate Unit 2 to Internal Shield & Heater	0.62 pF
Plate Unit 3 & Cathode Unit 4 to Cathode Unit 3	1.9 pF
Plate Unit 3 & Cathode Unit 4 to Plate Unit 4	2.2 pF
Plate Unit 4 to Internal Shield & Heater	0.94 pF
Cathode Unit 1 to Internal Shield & Heater	1.8 pF
Cathode Unit 3 to Internal Shield & Heater	1.9 pF

MECHANICAL

Bulb	T-6½
Base	9-Pin Miniature (EIA E9-1)
Outline	EIA 6-2
Basing	EIA 9PQ
Mounting Position	Any

MAXIMUM RATINGS: (Per Unit)

Design Maximum Values (Note 1)

Peak Inverse Plate Voltage	300 max. Volts
Peak Plate Current Per Plate	54 max. mA
DC Output Current Per Plate	9 max. mA
Peak Heater-Cathode Voltage:	
Heater Negative with Respect to Cathode	300 max. Volts
Heater Positive with Respect to Cathode	300 max. Volts

CHARACTERISTIC (Per Unit)

Plate Voltage (Note 2)	10 Volts
Plate Current (Note 2)	60 mA

NOTES

1. Design-Maximum Ratings are the limiting values expressed with respect to bogie tubes at which satisfactory tube life can be expected to occur in the types of service for which the tube is rated. Therefore the equipment designed must establish the circuit design so that initially and throughout equipment life no Design-Maximum value is exceeded with a bogie tube under the worst probable operating conditions with respect to supply-voltage variation, equipment control adjustment, load variation and environmental conditions.
2. Duty cycle of applied voltage must be such that Rated DC plate current is not exceeded.

