6JC6-A

Sharp-Cutoff Pentode

TUBES

• FRAME-GRID TYPE

16000 MICROMHOS

NO EXTERNAL SHIELD REQUIRED

• COMMON PLATE AND SCREEN SUPPLY

The 6JC6-A is a miniature, frame-grid, sharp-cutoff pentode designed primarily for use in the intermediate-frequency amplifier stages of both monochrome and color television receivers.

The 6JC6-A is unilaterally interchangeable with the 6JC6, but has higher plate and screen dissipation ratings, and higher transconductance, plate and screen current characteristics.

GENERAL

ELECTRICAL

MECHANICAL

Waximum Diameter	inches
Minimum Diameter0.750	Inches
Maximum Over-all Length2.187	Inches
Maximum Seated Height	Inches

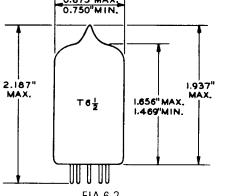
MAXIMUM RATINGS

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.

PHYSICAL DIMENSIONS 0.875"MAX 0.750"MIN.



TERMINAL CONNECTIONS

Pin 1 - Cathode

Pin 2 - Grid Number 1

Pin 3 - Cathode

Pin 4 - Heater

Pin 5 - Heater

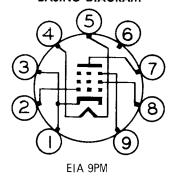
Pin 6 - No Connection

Pin 7 - Plate

Pin 8 - Grid Number 2 (Screen)

Pin 9 - Grid Number 3 (Suppressor) and Internal Shield

BASING DIAGRAM



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.



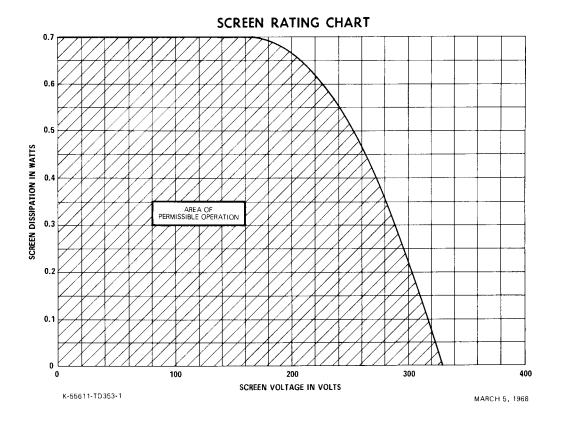


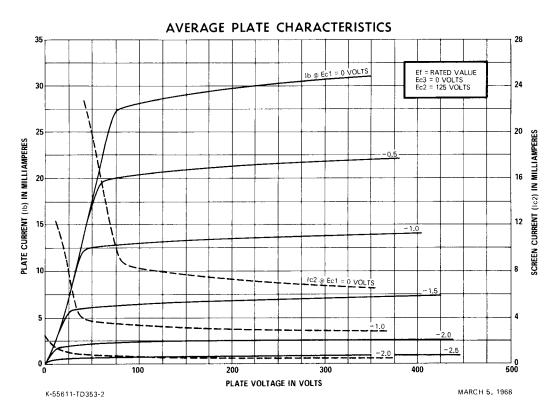
MAXIMUM RATINGS (Cont'd)

DESIGN-MAXIMUM VALUES	
Plate Voltage	Volts
Suppressor Voltage	Volts
Screen-Supply Voltage	Volts
Positive DC Grid-Number 1 Voltage	Volts
Plate Dissipation 3.1	Watts
Screen Dissipation. 0.7	Watts
Heater-Cathode Voltage	
Heater Positive with respect to Cathode	
DC Component	Volts
Total DC and Peak	Volts
Heater Negative with respect to Cathode	
Total DC and Peak	Volts
Grid-Number 1 Circuit Resistance	Magahma
With Fixed Bias	Megohms Megohms
With Cathode bids	Wegomis
CHARACTERISTICS AND TYPICAL OPERATION	
CLASS A, AMPLIFIER	
Plate Voltage	Volts
Suppressor, Connected to Cathode at Socket	
Screen Voltage	Volts
Cathode-Bias Resistor	Ohms
Plate Resistance, approximate	Megohms
Transconductance	Micromhos
Plate Current	Milliamperes
Screen Current	Milliamperes
Grid-Number 1 Voltage, approximate	Valta
Ib = 100 Microamperes. -3	Volts

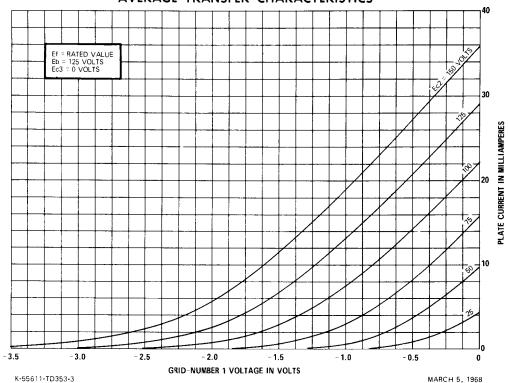
NOTES

- * 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.

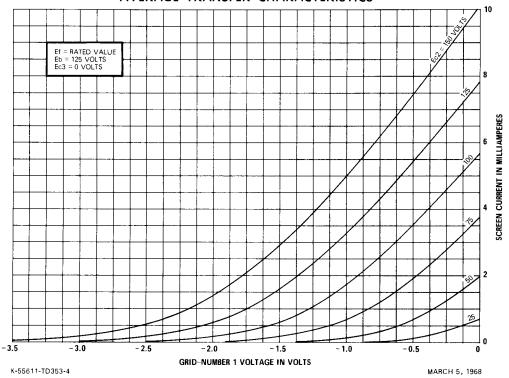




AVERAGE TRANSFER CHARACTERISTICS



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