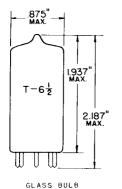
- TUNG-SOL -

TWIN TRIODE

MINIATURE TYPE

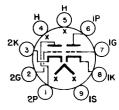


MINIATURE BUTTON
9 PIN BASE E9-1
OUTLINE DRAWING
JEDEC 6-2

COATED UNIPOTENTIAL CATHODE

CASCODE AMPLIFIER FOR SERIES STRING VHF TELEVISION RECEIVERS

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM JEDEC 9AJ

THE 6BC8 IS A MEDIUM-MU, SEMI-REMOTE CUT-OFF TWIN TRIODE USING THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A CASCODE AMPLIFIER IN VHF TELEVISION RECEIVER TUNERS.

DIRECT INTERELECTRODE CAPACITANCES

EXTERNAL SHIELD #315 CONNECTED TO PIN 9

	#1 TRIODE	#2 TRIODE	
GRID TO PLATE (G TO P)	→ 1.2	→ 1.2	рf
PLATE TO CATHODE (P TO K)		→ 0.12	рf
HEATER TO CATHODE (H TO K)	→ 2.8	→ 2.8	рf
#1 INPUT: G1 TO (H+K+I.S.)	→ 2.6		рf
#2 INPUT: K TO (H+G+1.S.)A		→ 5.5	рf
#1 OUTPUT: P TO (H+K+I.S.)	1.3		рf
#2 OUTPUT: P TO (H+G+1.S.) A		→ 2.4	рf
#1 PLATE TO #2 PLATE (1P TO 2P)(MAX.)	→ .	02	рf
#2 PLATE TO #1 PLATE AND GRID: (2P TO 1P+1G)			рf
MAXIMUM	→.	04	рf

AREAD AS GROUNDED GRID AMPLIFIER.

--- INDICATES A CHANGE.

CONTINUED ON FOLLOWING PAGE

--- TUNG.20L ·

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HEATER CHARACTERISTICS AND RATINGS DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

6.3 VOLTS	400	MA.
	6.3±0.6	VOLTS
HODEB		
HODE	200	VOLTS
	100	VOLTS VOLTS
	6.3 VOLTS HODE ^B	6.3±0.6 HODE ^B 200

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	250	VOLTS
PLATE DISSIPATION	2.2	WATTS
CATHODE CURRENT	→ 22	MA.
GRID CIRCUIT RESISTANCE	0.5	MEGOHM

TYPICAL OPERATING CHARACTERISTICS

CLASS A1 AMPLIFIER

EACH UNIT

PLATE VOLTAGE	150	VOLTS
CATHODE RESISTOR	220	OHMS
PLATE RESISTANCE*	5300	OHMS
TRANSCONDUCTANCE	6200	μ MHOS
AMPLIFICATION FACTOR	35	
PLATE CURRENT	10	MA.
GRID VOLTAGE (APPROX.) FOR GM =50 μ MHOS	-13	VOLTS

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY 1TS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND IMPOURDOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATIONS.

 $^{{}^{\}rm B}{}_{\rm THIS}$ rating may be as high as 300 volts under cutoff conditions when the tube 1s used as a cascode amplifier and the two sections are connected in series.

