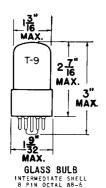
TUNG-SOL -

DOUBLE-TRIODE



OUTLINE DRAWING JEDEC 9-5 COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 1.05 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

BASING DIAGRAM JEDEC 8BD

THE 6EA7 IS A DISSIMILAR DOUBLE—TRIODE DESIGNED FOR USE AS A COMBINED VERTICAL DEFLECTION OSCILLATOR AND AMPLIFIER IN TELEVISION RECEIVERS. SECTION ONE, A HIGH—MU TRIODE, IS INTENDED FOR SERVICE AS AN OSCILLATOR; SECTION TWO, A LOW—MU, HIGH PERVEANCE TRIODE, IS INTENDED FOR SERVICE AS AN AMPLIFIER.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

	SECTION 1	SECTION 2	
GRID TO PLATE	4.0	8.0	$\mu\mu$ f
INPUT	2.2	6.0	µµ f
OUTPUT	0.6	1.3	$\mu\mu$ f

RATINGS INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

	VERTICAL A OSCILLATOR SERVICE (SECTION 1)	VERTICAL A DEFLECTION AMPLIFIER (SECTION 2)	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM ALLOWABLE HEATER VOLTAGE	5.7 to	6.9	VOLTS
MAXIMUM DC PLATE VOLTAGE	350	550	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE		1500	VOLTS
MAXIMUM PEAK NEGATIVE GRID VOLTAGE	400	250	VOLTS
MAXIMUM PLATE DISSIPATION	1.0	10 ^B	WATTS
MAXIMUM DC CATHODE CURRENT		50	MA.
MAXIMUM PEAK CATHODE CURRENT		175	MA.
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC COMPONENT	100	100	VOLTS
TOTAL DC AND PEAK	200	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK	200	200	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE:			
WITH FIXED BIAS	1.0	1.0	MEGOHMS
WITH CATHODE BIAS	2.2	2.2	ME GOHMS

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--- TUNG·SOL ---

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AVERAGE CHARACTERISTICS ←

	SECTION 1 (OSCILLATOR)		ION 2 IFIER)	
PLATE VOLTAGE	250	60	175	VOLTS
GRID VOLTAGE	-3.0	0^{c}	-25	VOLTS
AMPLIFICATION FACTOR	66		5.5	
PLATE RESISTANCE (APPROX.)	30 000		920	OHMS
TRANSCONDUCTANCE	2 200		6 000	µмноѕ
PLATE CURRENT	2.0	100	4Ú	MA.
GRID VOLTAGE (APPROX.)				
$I_b = 20 \mu AMPS$.	5.3			VOLTS
GRID VOLTAGE (APPROX.)				
$I_b = 200 \mu AMPS$.			-45	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 ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UMDER THE WORST PROBABLE COMDITIONS. 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 THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTEMDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

-- INDICATES A CHANGE.

A FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

 $^{^{}m B}$ in stages operating with grid-leak bias, an adequate cathode-bias resistor or other suitable means is required to protect the tube in the absence of excitation.

CAPPLIED FOR SHORT INTERVAL (TWO SECONOS MAXIMUM) SO AS NOT TO DAMAGE TUBE.