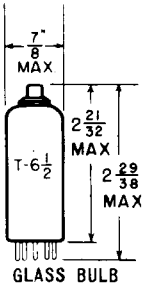
TUNG-SOL

RECTIFIER

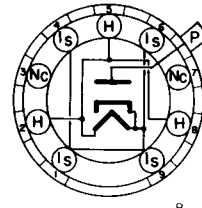


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
1.4 VOLTS[A] 0.55 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW[B]
SMALL BUTTON
9 PIN NOVAL
9DT

THE 1S2A IS A HIGH VACUUM-SINGLE ANODE RECTIFIER DESIGNED FOR E.H.T. SUPPLY FROM THE LINE TIME BASE IN TELEVISION RECEIVERS. EXCEPT FOR A CHEMICALLY TREATED ENVELOPE, WHICH AVOIDS FLASH-OVER UNDER CONDITIONS OF HIGH HUMIDITY AND LOW ATMOSPHERIC PRESSURE, IT IS IDENTICAL TO THE 1S2.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

PLATE TO CATHODE AND HEATER	1.8	μμf

RATINGS
INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	1.4	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE	22 000[CD]	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE AT ZERO PLATE CURRENT	24 000[CD]	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE (ABS. LIMIT)	27 000[CD]	VOLTS
MAXIMUM DC OUTPUT CURRENT	0.8	MA.
MAXIMUM PEAK PLATE CURRENT	40[E]	MA.
MAXIMUM FILTER INPUT CAPACITOR	2 000	μμf
HEATER VOLTAGE AT A D.C. OUTPUT CURRENT LESS THAN 200 μAMPS (ABSOLUTE LIMITS)	1.4±15%	VOLTS
HEATER VOLTAGE AT D.C. OUTPUT CURRENT HIGHER THAN 200 μAMPS. (ABS. LIMITS)	1.4±7%	VOLTS

OPERATING CONDITIONS

HEATER VOLTAGE	1.4	VOLTS
HEATER CURRENT	0.55	AMP.
DC OUTPUT CURRENT	0.15	MA.
DC OUTPUT VOLTAGE	18 000	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

NOTES

[A] WHEN THE HEATER IS TO BE OPERATED ON R.F. VOLTAGE OR FLY BACK PULSES, THE HEATER VOLTAGE CAN BE ADJUSTED TO 1.4 VOLTS BY COMPARISON OF THE COLOR OF THE CATHODE WITH THAT OF A CATHODE HEATED BY 1.4 VOLTS DC OR LOW-FREQUENCY AC.

[B] TO PREVENT CORONA IT IS RECOMMENDED TO USE AN ANTI-CORONA RING AROUND THE TUBEHOLDER, WHICH SHOULD BE CONNECTED TO THE CATHODE (PINS 1,4,6 AND 9).

CIRCUIT ELEMENTS HAVING THE SAME POTENTIAL AS THE HEATER (E.G. A SERIES RESISTOR) MAY BE SUPPORTED BY THE TUBEHOLDER CONTACTS 3 OR 7. THESE CONTACTS SHOULD, HOWEVER, NEVER BE EARTHED.

[C] DUE TO RINGING CAUSED BY THE LINE OUTPUT TRANSFORMER, AN ADDITIONAL NEGATIVE PLATE VOLTAGE MAY OCCUR, THE PEAK VALUE OF WHICH MUST BE TAKEN INTO ACCOUNT. THE INCREASE OF THE PEAK INVERSE PLATE VOLTAGE DUE TO THIS EFFECT MAY AMOUNT UP TO 23% OF THE D.C. OUTPUT VOLTAGE OF THE TUBE.

[D] MAXIMUM PULSE DURATION 18% OF A CYCLE, WITH A MAXIMUM OF 18 μSEC.

[E] MAXIMUM PULSE DURATION 10% OF A CYCLE, WITH A MAXIMUM OF 10 μSEC.