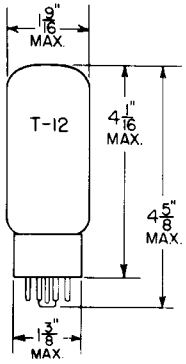
TUNG-SOL

TWIN DIODE



GLASS BULB

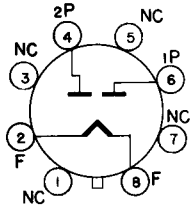
TUBE OUTLINE
JEDEC 12-16

COATED FILAMENT

5.0 VOLTS 3.0 AMP.

VERTICAL MOUNTING POSITION

HORIZONTAL OPERATION IS PERMITTED IF PINS 2 AND 4 ARE IN A VERTICAL PLANE.



BOTTOM VIEW

SHORT MEDIUM SHELL
8 PIN OCTAL
WITH BARRIER

BASING DIAGRAM

JEDEC 5T

THE 5V3A IS A FILAMENTARY FULL WAVE, HIGH VACUUM RECTIFIER DESIGNED FOR SERVICE IN THE POWER SUPPLY OF TELEVISION RECEIVERS OR OTHER EQUIPMENT REQUIRING HIGH CURRENTS.

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM[B]

RECTIFIER SERVICE[C]

FILAMENT VOLTAGE	5.0±0.5	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE	1550	VOLTS
MAXIMUM RMS AC PLATE SUPPLY VOLTAGE (EACH PLATE)	550	VOLTS
MAXIMUM STEADY STATE PEAK PLATE CURRENT(EA. PLATE)	1.4	AMP.
MAXIMUM TRANSIENT PEAK PLATE CURRENT (EACH PLATE)	6.6	AMP.
MAXIMUM DC OUTPUT CURRENT (CONDENSER INPUT) WITH AC PLATE SUPPLY VOLTAGE OF 470 VOLTS (RMS)	415	MA.
MAXIMUM BULB TEMPERATURE	240	°C
TUBE VOLTAGE DROP, TUBE CONDUCTING 350MA (EA. PLATE)	42	VOLTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

FULL WAVE RECTIFIER–CAPACITOR INPUT FILTER

AC PLATE SUPPLY VOLTAGE (EA. PLATE)RMS[D]	300	425	VOLTS
FILTER INPUT CAPACITOR	40	40	μf
EFFECTIVE PLATE SUPPLY RESISTANCE (EA. PLATE)	20	50	OHMS
DC OUTPUT CURRENT	380	350	MA.
DC OUTPUT VOLTAGE AT FILTER INPUT	300	440	VOLTS

FULL WAVE RECTIFIER–CHOKE INPUT FILTER

AC PLATE SUPPLY VOLTAGE (EACH PLATE) RMS[D]	500	VOLTS
FILTER INPUT CHOKE	10	HENRY
DC OUTPUT CURRENT	350	MA.
DC OUTPUT VOLTAGE AT FILTER INPUT	390	VOLTS

CONTINUED ON FOLLOWING PAGE

PRINTED IN U.S.A.

CONTINUED FROM PRECEDING PAGE

NOTES

[B] 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 UNDER THE WORST PROBABLE 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 THROUGHOUT 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 CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

[C] FOR USE WITH SINUSOIDAL SUPPLY VOLTAGES WITHIN THE FREQUENCY RANGE OF 25 TO 1000 CYCLES.

[D] AC PLATE VOLTAGE IS MEASURED WITHOUT LOAD.

[E] FILAMENT CURRENT AT 5.0 VOLTS.