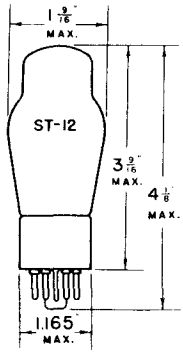
TUNG-SOL



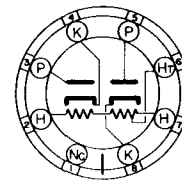
TWIN DIODE HIGH VACUUM RECTIFIER

VOLTAGE DOUBLER

UNIPOTENTIAL CATHODES

HEATER
50 VOLTS 0.15 AMPERE
AC OR DC

GLASS BULB



G-8AN
BOTTOM VIEW

SMALL 8 PIN OCTAL BASE

THE TUNG-SOL 50Z7G IS DESIGNED FOR SERVICE AS A POWER RECTIFIER IN AC-DC RECEIVERS. TWO SEPARATE RECTIFIER UNITS ALSO PERMIT THE USE OF THE TUBE AS A VOLTAGE DOUBLER, FULL WAVE RECTIFIER OR HALF WAVE RECTIFIER. WITH THE PROPER EXTERNAL CONNECTIONS, THE TAPPED SECTION OF THE HEATER SERVES AS A BALLAST RESISTOR FOR THE PANEL LAMP.

RATINGS

HEATER VOLTAGE (BETWEEN PINS #2 AND #7)	50.0	VOLTS
HEATER CURRENT (BETWEEN PINS #2 AND #7)	0.15	AMP.
MAXIMUM AC PLATE VOLTAGE PER PLATE (RMS)	235	VOLTS
MAXIMUM PEAK INVERSE VOLTAGE	700	VOLTS
MAXIMUM DC HEATER TO CATHODE POTENTIAL	350	VOLTS
MAXIMUM STEADY-STATE PEAK PLATE CURRENT PER PLATE	400	MA.
MAXIMUM DC OUTPUT CURRENT PER PLATE WITH PANEL LAMP	65	MA.
TAPPED SECTION OF HEATER VOLTAGE (BETWEEN PINS #6 & #7) WITH 0.15 AMP. FLOWING BETWEEN PINS #2 & #7	2.0	VOLTS
TUBE VOLTAGE DROP — AT 130 MA. DC PER PLATE	21	VOLTS

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PLATE
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SEPT. 23
1940

FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK.

CONTINUED NEXT PAGE

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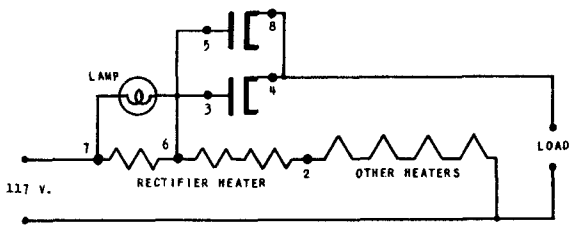
TUNG-SOL

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HALF WAVE RECTIFIER
WITH #292 OR #292A PANEL LAMP[A]

HEATER VOLTAGE (BETWEEN PINS #2 AND #7) APPROX.	50.0	50.0	VOLTS
HEATER CURRENT (BETWEEN PINS #2 AND #6)	0.15	0.15	AMP.
MAXIMUM VOLTAGE ACROSS TAPPED SECTION OF HEATER (BETWEEN PINS #6 AND #7)	2.5	2.5	VOLTS
AC PLATE VOLTAGE PER PLATE (RMS)	117	235 MAX	VOLTS
DC OUTPUT CURRENT PER PLATE MAX.	65	65	MA.
TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE PER PLATE MIN.[B]	15	100	OHMS

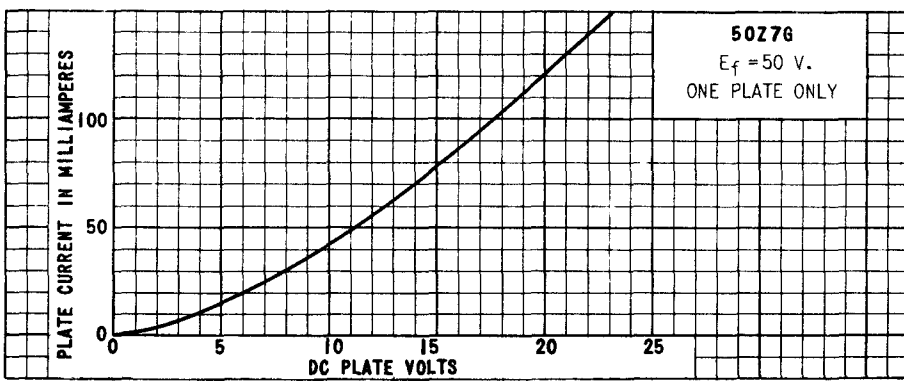


VOLTAGE DOUBLER
WITH #292 OR #292A PANEL LAMP[A]

HEATER VOLTAGE (BETWEEN PINS #2 AND #7)	50.0	VOLTS
AC PLATE VOLTAGE PER PLATE (RMS) MAX.	117	VOLTS
DC OUTPUT CURRENT PER PLATE MAX.	65	MA.
TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE PER PLATE MIN.[B]	15	OHMS

[A] IT IS RECOMMENDED THAT THE PLATE CURRENT OF THE RECTIFIER BE PASSED THROUGH THE PANEL LAMP AND THE TAPPED SECTION OF THE HEATER.

[B] WHEN FILTER CONDENSERS LARGER THAN 40 μFDS ARE USED, IT MAY BE NECESSARY TO ADD ADDITIONAL PLATE SUPPLY IMPEDANCE.



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