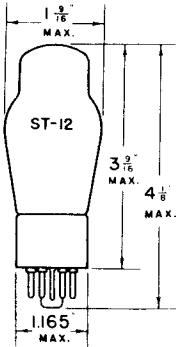


## TUNG-SOL



## TWIN DIODE HIGH VACUUM RECTIFIER

VOLTAGE DOUBLER

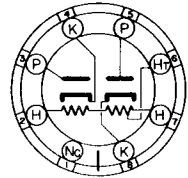
UNIPOTENTIAL CATHODES

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

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

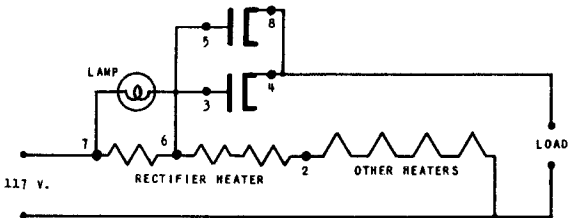
CONTINUED NEXT PAGE

## TUNG-SOL

### TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

#### HALF WAVE RECTIFIER WITH #292 OR #292A PANEL LAMP<sup>A</sup>

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 <sup>MAX</sup>	VOLTS
DC OUTPUT CURRENT PER PLATE <sup>MAX</sup> -	65	65	MA.
TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE PER PLATE <sup>MIN. B</sup>	15	100	OHMS



#### VOLTAGE DOUBLER WITH #292 OR #292A PANEL LAMP<sup>A</sup>

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

<sup>A</sup> IT IS RECOMMENDED THAT THE PLATE CURRENT OF THE RECTIFIER BE PASSED THROUGH THE PANEL LAMP AND THE TAPPED SECTION OF THE HEATER.

<sup>B</sup> WHEN FILTER CONDENSERS LARGER THAN 40  $\mu$ FDS ARE USED, IT MAY BE NECESSARY TO ADD ADDITIONAL PLATE SUPPLY IMPEDANCE.

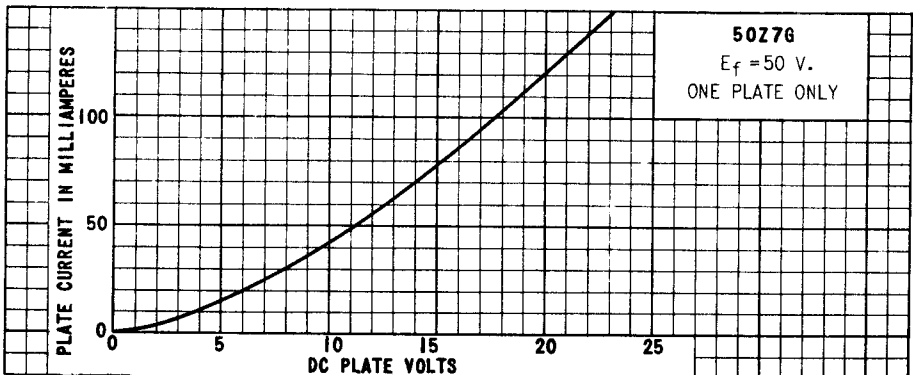


PLATE  
863-1