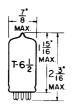
- TUNB-SOL -

DOUBLE-DIODE PENTODE

MINIATURE TYPE



GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
4.7 VOLTS 0.6±6% AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW SMALL BUTTON 9 PIN BASE 9HK

THE 58W8 IS A DOUBLE-DIODE PENTODE IN WHICH SEPARATE CATHODES ARE PROVIDED FOR THE TWO SECTIONS. THE DIODE SECTIONS ARE INTENDED FOR USE PRIMARILY AS A HORIZONTAL PHASE DETECTOR IN TELEVISION RECEIVERS. THE PENTODE SECTION IS SUITABLE FOR USE AS A SOUND IF AMPLIFIER, SOUND LIMITER, AND AUTOMATIC-GAIN-CONTROL KEYER.

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

PENTODE GRID #1 TO PLATE (MAX.)	0.020	<i>µµ</i> f
PENTODE INPUT	4.8	$\mu\mu$ f
PENTODE OUTPUT	2.6	μμ f
GRID #4 TO EACH DIODE PLATE (MAX.)	0.006	μμ f
DIODE #1 PLATE TO DIODE CATHODE & HEATER	1.3	$\mu\mu$ f
DIODE #2 PLATE TO DIODE CATHODE & HEATER	1.2	$\mu\mu$ f

RATINGS INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	4.7	VOLTS
MAX!MUM PLATE VOLTAGE	0.6±6%	VOLTS
MAXIMUM SCREEN-SUPPLY VOLTAGE	330	VOLTS
MAXIMUM SCREEN VOLTAGE SEE SCREEN RATE	NG CHART	
MAXIMUM POSITIVE DC GRID #4 VOLTAGE	0	VOLTS
MAXIMUM NEGATIVE DC GRID #1 VOLTAGE	55	VOLTS
MAXIMUM PLATE DISSIPATION	3.0	WATTS
MAXIMUM SCREEN DISSIPATION	0.55	WATTS
MAXIMUM HEATER-CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE		
WITH FIXED BIAS	0.1	MEGOHMS
WITH CATHODE BIAS	0.5	MEGOHMS
MAXIMUM DIODE CURRENT FOR CONTINUOUS OPERATION (EA. SEC.) 5.0	MA.
HEATER WARM-UP TIME (APPROX.) *	19.0	SECOND3

^{*}HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH 80% OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE HEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

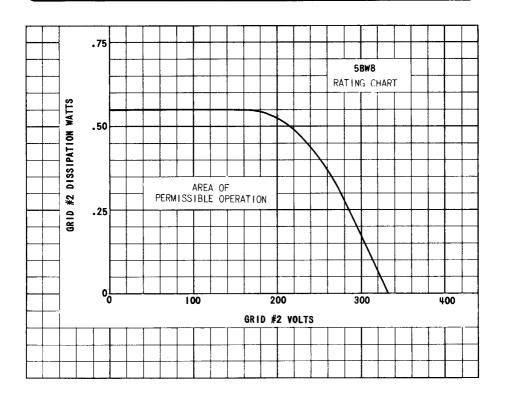
TUNG-SOL -

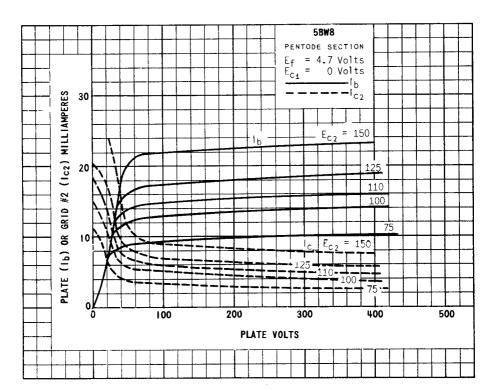
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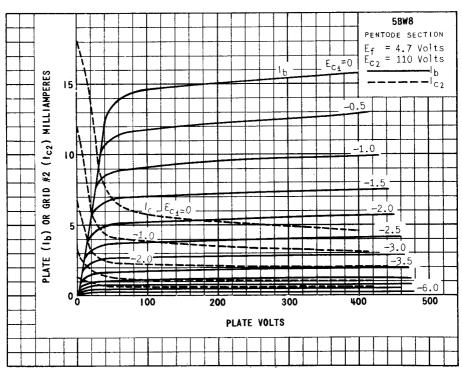
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE HEATER CURRENT PLATE VOLTAGE SCREEN VOLTAGE CATHODE—BIAS RESISTOR PLATE RESISTANCE (APPROX.) TRANSCONDUCTANCE PLATE CURRENT SCREEN CURRENT GRID #1 VOLTAGE (APPROX.) I _b =10 µamps	4.7 0.6±6% 250 110 68 0.25 5200 10 3.5 -10	VOLTS AMP. VOLTS VOLTS OHMS MEGOHMS MMHOS MA. VOLTS
AVERAGE DIODE CURRENT (EACH DIODE) WITH 5 VOLTS DE APPLIED	-10 20	MA.

DESIGN-MAXIMUM RATINGS ARE THE LIMITING VALUES EXPRESSED WITH RESPECT TO BOGIE TUBES AT WHICH SATISFACTORY TUBE LIFE CAN BE EXPECTED TO OCCUR. TO OBTAIN SATISFACTORY CIRCUIT PERFORMANCE, THEREFORE, THE EQUIPMENT DESIGNER MUST ESTABLISH THE CIRCUIT DESIGN SO THAT NO DESIGN-MAXIMUM VALUE IS EXCEEDED WITH A BOGIE TUBE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, AND ENVIRONMENTAL CONDITIONS







5BW8 TENTATIVE DATA

