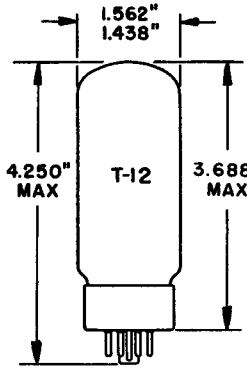
TUNG-SOL

TWIN TRIODE



GLASS BULB
SHORT MEDIUM SHELL
8 PIN OCTAL B8-110
OUTLINE DRAWING
JEDEC 12-15

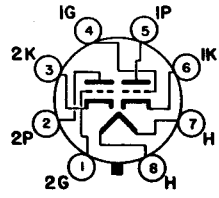
FOR

SERIES REGULATOR

APPLICATIONS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 8BD

THE 5998A IS A LOW-MU TWIN TRIODE DESIGNED FOR SERVICE AS A SERIES REGULATOR IN DC POWER SUPPLIES. EXCEPT FOR THE USE OF T-12 ENVELOPE AND A DIFFERENT BASE, THE 5998A IS IDENTICAL TO THE 5998.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

WITHOUT EXTERNAL SHIELD

GRID TO PLATE, EACH SECTION: (G TO P)	14.5	pf
INPUT, EACH SECTION: G TO (H + K)	6.5	pf
OUTPUT, EACH SECTION: P TO (H + K)	2.0	pf
HEATER TO CATHODE, EACH SECTION: (H TO K)	11	pf
PLATE, SECTION 1 TO PLATE, SECTION 2: (1P TO 2P)	2.0	pf

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

EACH SECTION

AVERAGE CHARACTERISTICS	6.3	VOLTS	2.4	AMP.
CATHODE HEATING TIME (MINIMUM)			30	SECONDS
HEATER SUPPLY LIMITS:				
VOLTAGE OPERATION			6.3 ± 0.6	VOLTS
MAXIMUM HEATER CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE			100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			100	VOLTS

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MAXIMUM RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

EACH SECTION

PLATE VOLTAGE	275	VOLTS
PLATE DISSIPATION	15	WATTS
DC PLATE CURRENT	140	MA.
GRID CIRCUIT RESISTANCE	0.25	MEGOHMS
BULB TEMPERATURE AT HOTTEST POINT [A]	200	°C

AVERAGE CHARACTERISTICS

EACH SECTION

PLATE SUPPLY VOLTAGE	110	VOLTS
CATHODE-BIAS RESISTOR	105	OHMS
AMPLIFICATION FACTOR	5.4	
PLATE RESISTANCE, APPROX.	350	OHMS
TRANSCONDUCTANCE	15,500	μMHOS
PLATE CURRENT	100	MA.

[A] FOR OPTIMUM TUBE LIFE, THE BULB TEMPERATURE SHOULD BE MAINTAINED BELOW 150 °C BY FORCED AIR COOLING.