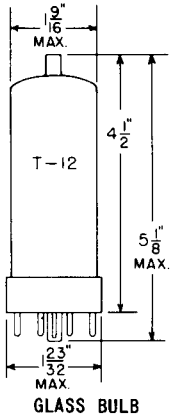
TUNG-SOL

BEAM TRIODE

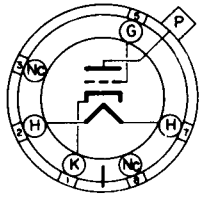


GLASS BULB
SMALL CAP

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 0.6 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
SHORT JUMBO-SHELL
6 PIN OCTAL

THE 6BD4 IS A LOW CURRENT, SHARP-CUTOFF BEAM TRIODE. IT IS DESIGNED SPECIFICALLY FOR THE VOLTAGE REGULATION OF HIGH VOLTAGE, LOW CURRENT DC POWER SUPPLIES.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE	1.0	μμf
INPUT	3.8	μμf
OUTPUT (MAX.)	0.04	μμf

RATINGS

INTERPRETED ACCORDING TO RETMA STANDARD M8-210

VOLTAGE CONTROL SERVICE – DESIGN CENTER VALUES

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	180	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	180	VOLTS
MAXIMUM DC PLATE VOLTAGE	20 000	VOLTS
MAXIMUM UNREGULATED DC SUPPLY VOLTAGE	40 000	VOLTS
MAXIMUM GRID VOLTAGE:		
DC VALUE	-125	VOLTS
PEAK VALUE	-550	VOLTS
MAXIMUM DC PLATE CURRENT	1.5	MA.
MAXIMUM PLATE DISSIPATION	20	WATTS
MAXIMUM GRID CIRCUIT RESISTANCE:		
WITH UNREGULATED SUPPLY HAVING AN EQUIVALENT RESISTANCE OF AT LEAST 8 MEGOHMS	3	MEGOHMS
WITH UNREGULATED SUPPLY HAVING AN EQUIVALENT RESISTANCE LESS THAN 8 MEGOHMS	SEE CURVE #1	

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AS A SHUNT VOLTAGE-REGULATOR TUBE IN ACCOMPANYING CIRCUIT

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
UNREGULATED SUPPLY:		
DC VOLTAGE	29 800	VOLTS
EQUIVALENT RESISTANCE	8	MEGOHMS
VOLTAGE DIVIDER VALUES:		
R_1 (5 WATTS)	120	MEGOHMS
R_2 (2 WATTS)	1	MEGOHM
R_3 (1/2 WATT)	2	MEGOHMS
REFERENCE VOLTAGE SUPPLY:		
DC VALUE	500	VOLTS
EQUIVALENT RESISTANCE	1 000	OHMS
EFFECTIVE GRID-PLATE TRANSCONDUCTANCE	138	µMHOS
DC PLATE CURRENT:		
FOR LOAD CURRENT OF 0 MA.	1 055	µAMP.
FOR LOAD CURRENT OF 1 MA.	100	µAMP.
AMPLIFICATION FACTOR	1 650	
REGULATED DC OUTPUT VOLTAGE:		
FOR LOAD CURRENT OF 0 MA.	20 000	VOLTS
FOR LOAD CURRENT OF 1 MA.	19 700	VOLTS