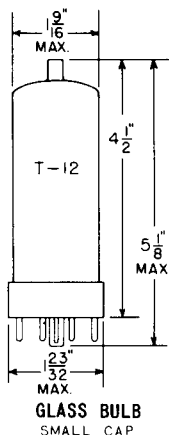


TUNG-SOL

BEAM TRIODE



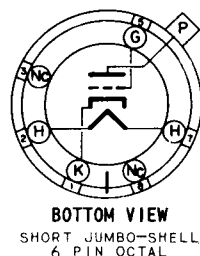
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION



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	μf
INPUT	3.8	μf
OUTPUT (MAX.)	0.04	μf

RATINGS

INTERPRETED ACCORDING TO RETMA STANDARD MB-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

