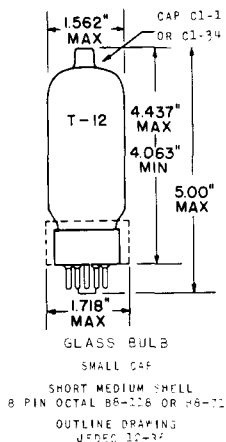


TUNG-SOL

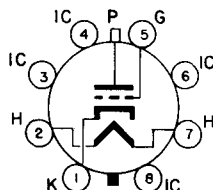
TRIODE



COATED UNIPOTENTIAL CATHODE

HEATER
 6.3 ± 0.6 VOLTS 200 MA.
 AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
 BASING DIAGRAM
 JEDEC 8GC

THE 6BK4 IS A SHARP CUT-OFF BEAM TRIODE. IT IS DESIGNED FOR THE VOLTAGE REGULATION OF HIGH VOLTAGE, LOW CURRENT DC POWER SUPPLIES IN COLOR TELEVISION.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE	0.03	pf
GRID TO CATHODE AND HEATER	2.6	pf
PLATE TO CATHODE AND HEATER	1.0	pf

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

VOLTAGE CONTROL SERVICE

MAXIMUM PEAK HEATER-CATHODE VOLTAGE:

HEATER NEGATIVE WITH RESPECT TO CATHODE

220 VOLTS

HEATER POSITIVE WITH RESPECT TO CATHODE

NOT RECOMMENDED

MAXIMUM DC PLATE VOLTAGE

27 000 VOLTS

MAXIMUM UNREGULATED DC SUPPLY VOLTAGE

60 000 VOLTS

MAXIMUM GRID VOLTAGE:

DC VALUE

-135 VOLTS

PEAK VALUE (FOR DURATION OF 20 SEC. MAX. DURING EQUIPMENT WARM-UP)

-440 VOLTS

MAXIMUM DC PLATE CURRENT

1.6 MA.

MAXIMUM PLATE DISSIPATION

25 WATTS

MAXIMUM GRID CIRCUIT RESISTANCE^A

3 MEGOHMS

^A FOR USE WITH "FLYBACK TRANSFORMER" HIGH VOLTAGE SUPPLY.

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE.

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

SHUNT VOLTAGE-REGULATOR TUBE
IN ACCOMPANYING CIRCUIT

UNREGULATED SUPPLY:

DC VOLTAGE	→ 36 000	VOLTS
EQUIVALENT RESISTANCE	11	MEGOHMS

VOLTAGE DIVIDER VALUES:

R_1 (5 WATTS)	220	MEGOHMS
R_2 (2 WATTS)	1	MEGOHM
R_3 (1/2 WATT)	820 000	OHMS

REFERENCE VOLTAGE SUPPLY:

DC VALUE	200	VOLTS
EQUIVALENT RESISTANCE	1 000	OHMS
EFFECTIVE GRID-PLATE TRANSCONDUCTANCE	200	μ MHOS

DC PLATE CURRENT:

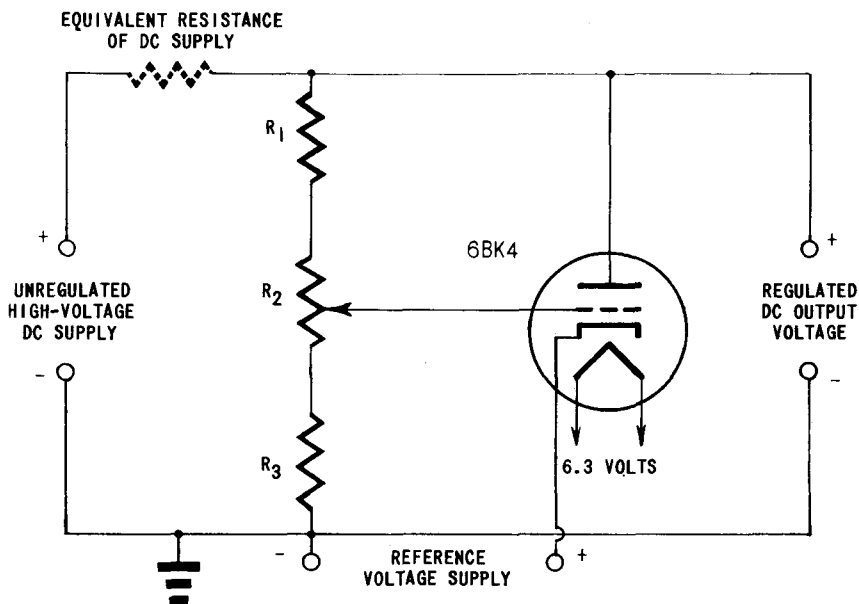
FOR LOAD CURRENT OF 0 MA.	1 000	μ AMP.
FOR LOAD CURRENT OF 1 MA.	45	μ AMP.

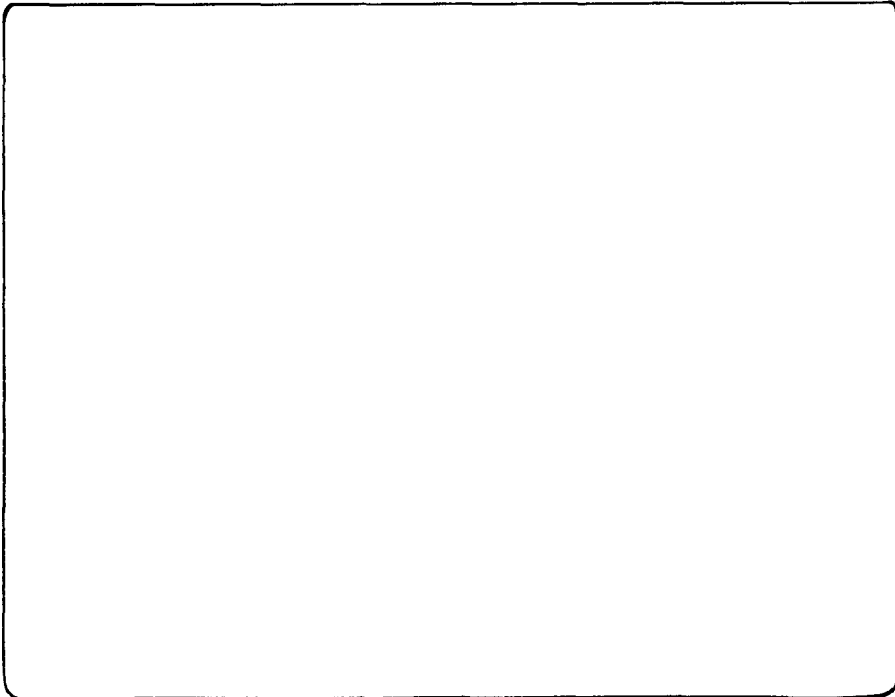
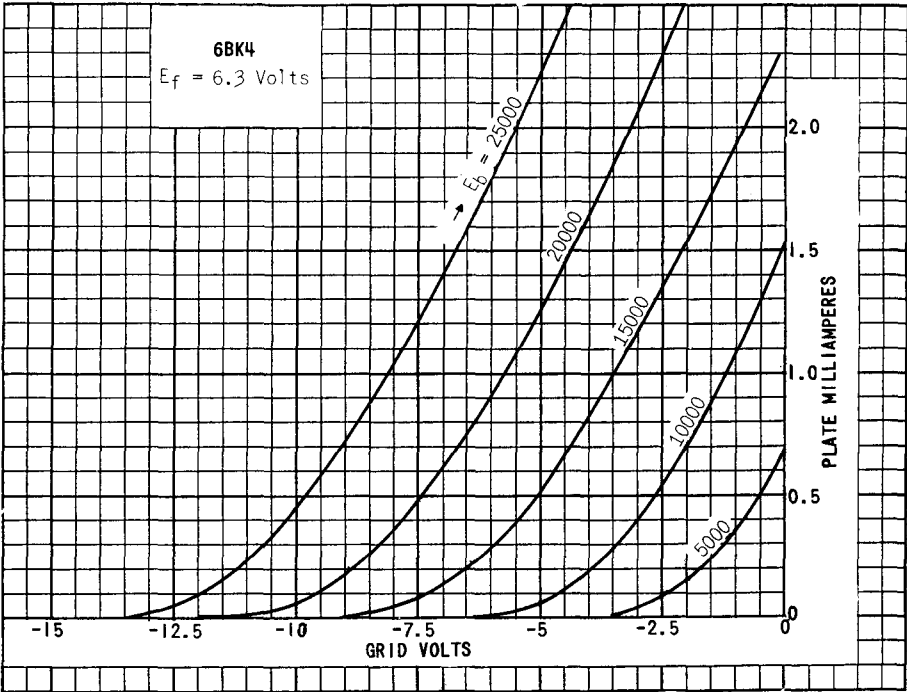
REGULATED DC OUTPUT VOLTAGE:

FOR LOAD CURRENT OF 0 MA.	25 000	VOLTS
FOR LOAD CURRENT OF 1 MA.	24 500	VOLTS

AMPLIFICATION FACTOR (APPROX.)

2 000





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