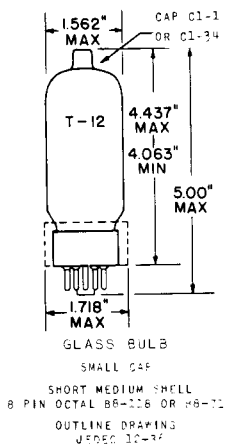


## TUNG-SOL

## TRIODE



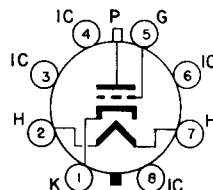
COATED UNIPOTENTIAL CATHODE

HEATER

6.3±0.6 VOLTS 200 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 86C

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 <sup>A</sup>	3	MEG OHMS

<sup>A</sup> 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	$\mu$ MHOS
DC PLATE CURRENT:		
FOR LOAD CURRENT OF 0 MA.	1 000	$\mu$ AMP.
FOR LOAD CURRENT OF 1 MA.	45	$\mu$ 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	

