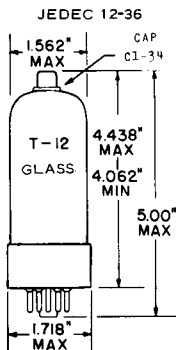


**TUNG-SOL**

TRIODE

OUTLINE DRAWING

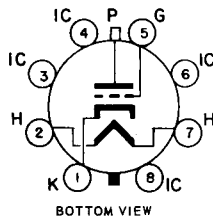


BASE SHORT MEDIUM SHELL  
8 PIN OCTAL  
JEDEC B8-118

FOR HIGH - VOLTAGE  
SHUNT REGULATOR SERVICE

COATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION

BASING DIAGRAM  
JEDEC 8GC



THE 6BK4A IS A SHARP CUT-OFF BEAM TRIODE FOR HIGH-VOLTAGE, LOW-CURRENT APPLICATION SHUNT REGULATION OF THE HIGH VOLTAGE, DC POWER SUPPLIED IN COLOR TELEVISION RECEIVERS. EXCEPT FOR ALLOWABLE PLATE DISSIPATION, THIS TYPE IS THE SAME AS THE 6BK4

**DIRECT INTERELECTRODE CAPACITANCES**

GRID TO PLATE: G TO P	0.03	pf
GRID TO CATHODE AND HEATER: G TO (K + H)	2.6	pf
PLATE TO CATHODE AND HEATER: P TO (K + H)	1.0	pf

**HEATER CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	200	MA
LIMITS OF APPLIED VOLTAGE - AC OR DC			6.3 ± 0.6	VOLTS
MAXIMUM HEATER - CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE			200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE				NOT RECOMMENDED

CONTINUED ON FOLLOWING PAGE

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**MAXIMUM RATINGS**

DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

MAXIMUM DC PLATE VOLTAGE	27,000	VOLTS
MAXIMUM UNREGULATED DC SUPPLY VOLTAGE	60,000	VOLTS
MAXIMUM NEGATIVE GRID VOLTAGE:		
DC VALUE	135	VOLTS
PEAK VALUE (FOR DURATION OF 20 SEC. MAX, DURING EQUIPMENT WARM-UP)	440	VOLTS
MAXIMUM PLATE DISSIPATION	30	WATTS
MAXIMUM DC PLATE CURRENT	1.6	MA
MAXIMUM GRID CIRCUIT RESISTANCE	3	MEGOHMS
FOR USE WITH "FLYBACK TRANSFORMER" HIGH VOLTAGE SUPPLY.		

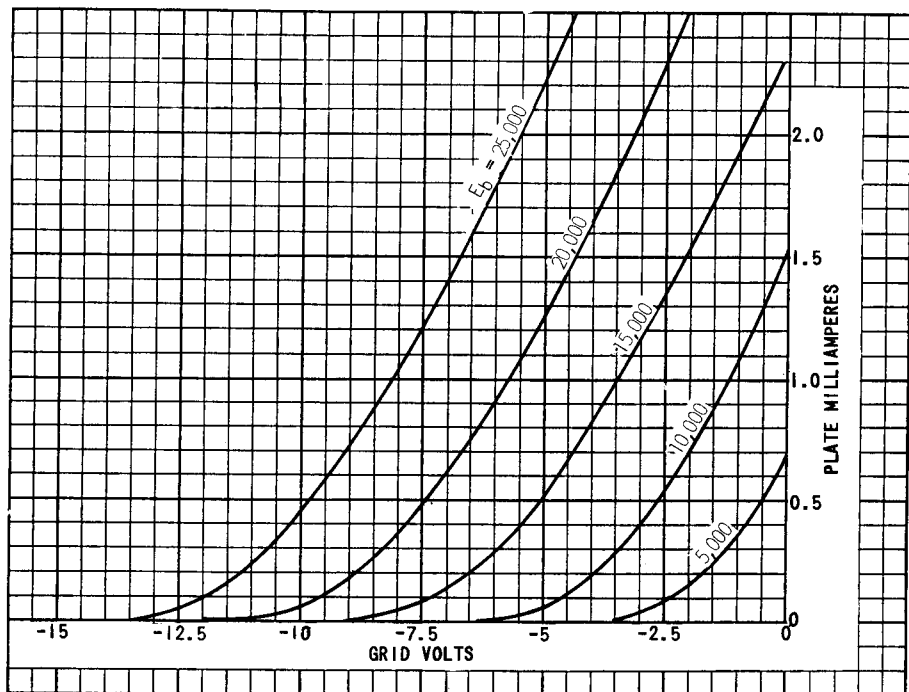
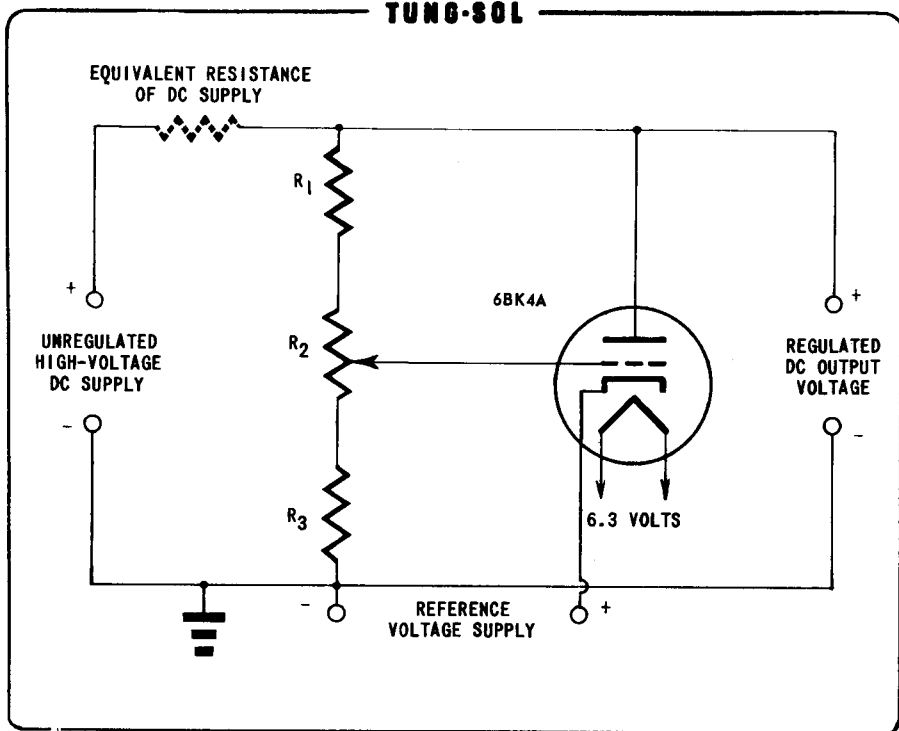
**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

SHUNT VOLTAGE - REGULATOR TUBE

IN ACCOMPANYING CIRCUIT

UNREGULATED SUPPLY:		
DC VOLTAGE	36,000	VOLTS
EQUIVALENT RESISTANCE	11	MEGOHMS
VOLTAGE DIVIDER VALUES:		
R <sub>1</sub> (5 WATTS)	220	MEGOHMS
R <sub>2</sub> (2 WATTS)	1	MEGOHM
R <sub>3</sub> (½ WATT)	820,000	OHMS
REFERENCE VOLTAGE:		
DC VALUE	200	VOLTS
EQUIVALENT RESISTANCE OF SUPPLY	1,000	OHMS
EFFECTIVE GRID-PLATE TRANSCONDUCTANCE	200	μMHOS
DC PLATE CURRENT:		
FOR LOAD CURRENT OF 0 MA.	1,000	μAMP.
FOR LOAD CURRENT OF 1 MA.	45	μAMP.
REGULATED DC OUTPUT VOLTAGE:		
FOR LOAD CURRENT OF 0 MA.	25,000	VOLTS
FOR LOAD CURRENT OF 1 MA.	24,500	VOLTS

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