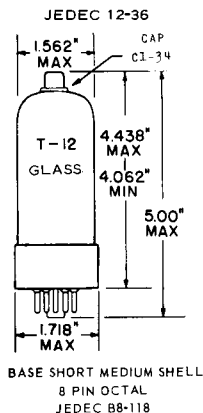


TUNG-SOL

TRIODE

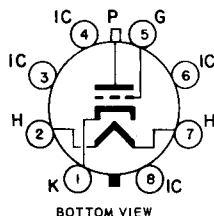
OUTLINE DRAWING



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

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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 ₁ (5 WATTS)	220	MEGOHMS
R ₂ (2 WATTS)	1	MEGOHM
R ₃ (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

TUNG-SOL

