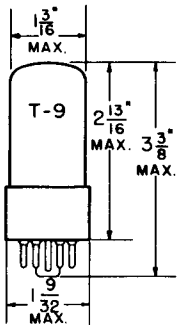
TUNG-SOL

DIODE



GLASS BULB

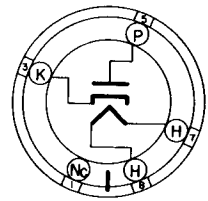
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 1.2 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

INTERMEDIATE SHELL
5 PIN OCTAL

4CG

THE 6U4GT IS A HALF-WAVE HIGH-VACUUM RECTIFIER DESIGNED ESPECIALLY FOR USE AS A DAMPING DIODE IN TELEVISION DEFLECTION CIRCUITS. A HIGH VOLTAGE HEATER-CATHODE INSULATION RATING ELIMINATES THE NECESSITY FOR A SEPARATE HEATER ISOLATION TRANSFORMER.

DIRECT INTERELECTRODE CAPACITANCES

HEATER TO CATHODE: (H+K)	8.5	μμf

RATINGS - ABSOLUTE VALUES[A]

TELEVISION DAMPER SERVICE

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE[B]	3850	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	110	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE[B]	3850	VOLTS
MAXIMUM PEAK PLATE CURRENT	660	MA.
MAXIMUM HOT-SWITCHING TRANSIENT PLATE CURRENT FOR DURATION OF 0.2 SEC. MAX.	3.85	AMP.
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 250 MA.)	21	VOLTS
DC OUTPUT CURRENT	138	MA.

HALF-WAVE RECTIFIER

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE WITH RESPECT TO CATHODE	500	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE	110	VOLTS
MAXIMUM PEAK INVERSE PLATE VOLTAGE	1375	VOLTS
MAXIMUM PEAK PLATE CURRENT	660	MA.
MAXIMUM HOT-SWITCHING TRANSIENT PLATE CURRENT FOR DURATION OF 0.2 SEC. MAX.	3.85	AMP.
TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 250 MA.)	21	VOLTS
DC OUTPUT CURRENT	138	MA.

[A] ABSOLUTE MAXIMUM RATINGS ARE THE LIMITING VALUES ABOVE WHICH THE SERVICEABILITY OF THE TUBE MAY BE IMPAIRED FROM THE VIEWPOINT OF LIFE AND SATISFACTORY PERFORMANCE. THEREFORE, IN ORDER NOT TO EXCEED THESE ABSOLUTE RATINGS THE EQUIPMENT DESIGNER HAS THE RESPONSIBILITY OF DETERMINING AN AVERAGE DESIGN VALUE FOR EACH RATING BELOW THE ABSOLUTE VALUE OF THAT RATING BY AN AMOUNT SUCH THAT THE ABSOLUTE VALUES WILL NEVER BE EXCEEDED BY ANY USUAL CONDITION OF LINE VOLTAGE VARIATION MANUFACTURING VARIATION (INCLUDING COMPONENTS) IN THE EQUIPMENT ITSELF, OR ADJUSTMENT OF CONTROLS.

[B] THIS RATING IS APPLICABLE WHERE THE DUTY CYCLE OF THE VOLTAGE PULSE DOES NOT EXCEED 15% OF ONE SCANNING CYCLE AND ITS DURATION IS LIMITED TO 10 MICROSECONDS.

CONTINUED ON FOLLOWING PAGE

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PLATE 2418

JUNE 1 1950

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CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HALF-WAVE RECTIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	1.2	AMP.
AC PLATE VOLTAGE (RMS)	350	VOLTS
DC OUTPUT VOLTAGE	335	VOLTS
DC OUTPUT CURRENT	125	MA.
FILTER INPUT CAPACITOR	20	µf
TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE	145	OHMS

PLATE 2419
JUNE 1 1950

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