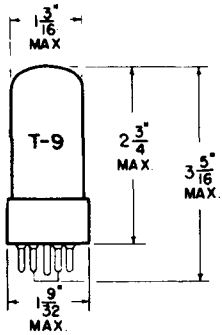
TUNG-SOL

# DIODE

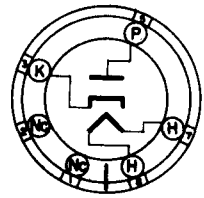



GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 1.2 AMP.
AC OR DC

ANY MOUNTING POSITION




**BOTTOM VIEW**
SHORT INTERMEDIATE SHELL 6 PIN OCTAL
4CG
PINS #1,2,4 & 6 SHALL NOT BE USED AS TIE POINTS *

THE 6W4GT IS A HALF-WAVE HIGH VACUUM RECTIFIER DESIGNED ESPECIALLY FOR USE AS A DAMPING DIODE IN TELEVISION DEFLECTION CIRCUITS. IT CAN ALSO BE USED IN CONVENTIONAL RECTIFIER APPLICATIONS.

## DIRECT INTERELECTRODE CAPACITANCES – APPROX.

| | | | |
|---|---|---|---|
| HEATER TO CATHODE: | H TO K | 7.0 | μμf |
| CATHODE TO PLATE AND HEATER: | K TO (P+H) | 13 | μμf ← |
| PLATE TO CATHODE AND HEATER: | P TO (K+H) | 6.0 | μμf ← |

## RATINGS[A]

INTERPRETED ACCORDING TO RMA STANDARD M6-210

DAMPER DIODE[B]

| | | |
|---|---|---|
| HEATER VOLTAGE | 6.3 | VOLTS |
| HEATER CURRENT | 1.2 | AMP. |
| MAXIMUM PEAK INVERSE PLATE VOLTAGE (ABSOLUTE MAXIMUM) | 3 850 | VOLTS ← |
| MAXIMUM HEATER-CATHODE VOLTAGE: | | |
| HEATER NEGATIVE WITH RESPECT TO CATHODE (ABSOLUTE MAX.) | | |
| DC | 500 | VOLTS * |
| TOTAL DC AND PEAK | 2 300 | VOLTS * |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | |
| DC | 100 | VOLTS * |
| TOTAL DC AND PEAK | 300 | VOLTS * |
| MAXIMUM DC PLATE CURRENT | 125 | MA. |
| MAXIMUM PEAK PLATE CURRENT | 750 | MA. ← |
| MAXIMUM PLATE DISSIPATION | 3.5 | WATTS |
| TUBE VOLTAGE DROP (WITH TUBE CONDUCTING 250 MA.) | 21 | VOLTS |

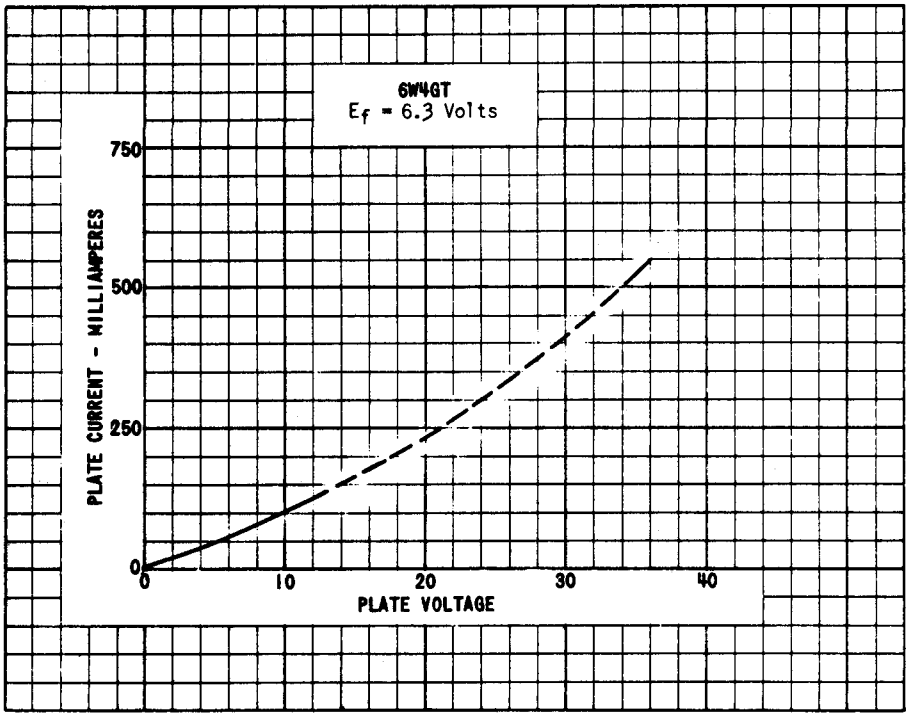
[A] DESIGN CENTER VALUES EXCEPT WHERE ABSOLUTE MAXIMUM IS STATED

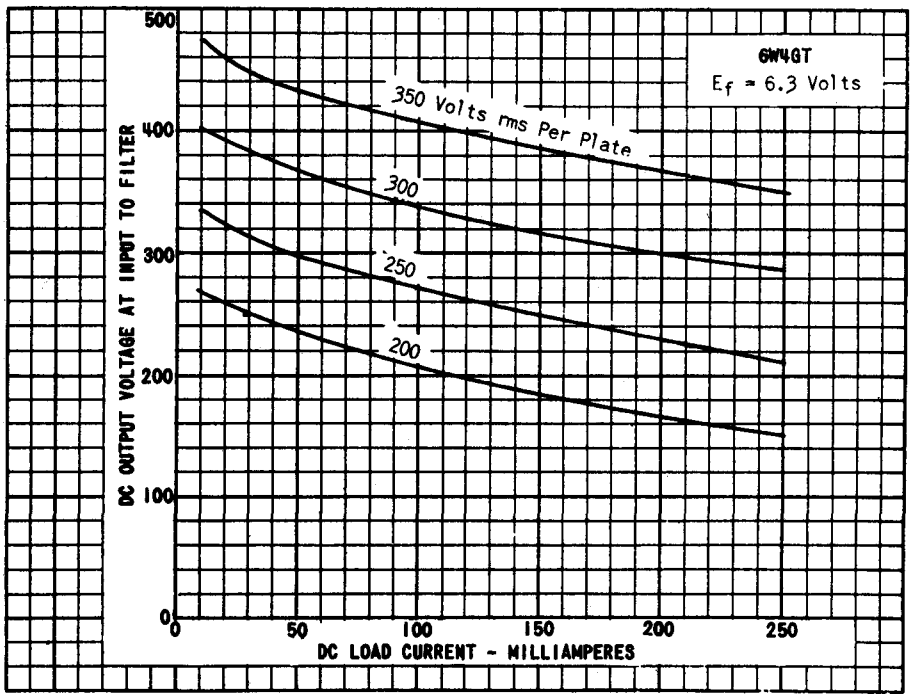
[B] FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION STATIONS; FEDERAL COMMUNICATIONS COMMISSION". THE DUTY CYCLE OF THE HORIZONTAL VOLTAGE PULSE NOT TO EXCEED 15% OF A SCANNING CYCLE. POWER RECTIFIER OPERATION IS NOT RECOMMENDED.

→ INDICATES A CHANGE.

* INDICATES AN ADDITION.

# 6W4GT


6W4GT
Ef = 6.3 Volts
PLATE CURRENT - MILLIAMPERES
750
500
250
0
0
10
20
30
40
PLATE VOLTAGE


6W4GT
Ef = 6.3 Volts
350 Volts rms Per Plate
300
250
200
DC OUTPUT VOLTAGE AT INPUT TO FILTER
500
400
300
200
100
0
0
50
100
150
200
250
DC LOAD CURRENT - MILLIAMPERES