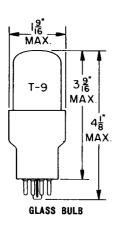
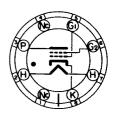
### TUME-SOL

### THYRATRON -



HEATER
6.3±10% VOLTS 0.60 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SPECIAL SKIRTED

SMALL SHELL LOW-LOSS
OCTAL 8 PIN BASE

6 B S

THE 2050W IS A RUGGEDIZED, XENON FILLED, FOUR ELECTRODE THYRATRON WITH WITH NEGATIVE CONTROL CHARACTERISTICS. THIS TUBE IS ELECTRICALLY EQUIVALENT TO THE POPULAR TYPE 2050, BUT HAS BEEN RUGGEDIZED TO PERMIT THE TUBE TO STAND HIGH IMPACT SHOCKS AND VIBRATION. THE DESIGN FEATURES STRONGER ELEMENTS AND A CUSHIONING SILASTIC RUBBER FILLING BETWEEN THE GLASS ENVELOPE AND THE SPECIAL SKIRTED LOW LOSS BASE. THIS TUBE IS DESIGNED FOR RELAY APPLICATIONS AND FOR GRID CONTROLLED RECTIFIER SERVICE. WITH THE SHIELD GRID TYPE OF CONSTRUCTION, A VERY LOW PRE-CONDUCTION GRID CURRENT FLOWS WHICH ALLOWS THE USE OF A HIGH RESISTANCE IN THE GRID CONTROL CHARACTERISTIC, BECAUSE OF THE INERT GAS FILLING, IS INDEPENDENT OF AMBIENT TEMPERATURE OVER A WIDE RANGE.

THE EFFECTIVE ANODE TO CONTROL GRID CAPACITY MAY BE REDUCED BY CONNECTING PIN #4 TO #8 AND CONNECTING THE GRID RESISTOR DIRECTLY AT THE SOCKET TERMINAL.

### ELECTRICAL DATA

HEATER VOLTAGE  HEATER CURRENT (E <sub>f</sub> =6.3VOLTS)  MINIMUM CATHODE HEATING TIME  ANODE TO CONTROL GRID CAPACITANCE  CONTROL GRID TO CATHODE (AND SHIELD GRID)CAPACITANCE  ANODE TO CATHODE (AND SHIELD GRID)CAPACITANCE  DE-IONIZATION TIME, APPROX. (SHIELD TIED TO CATHODE)  WITH GRID VOLTS =-250, GRID RES.=10000	6.3±10% 0.60 10. 0.26 4.2 3.6	VOLTS AMP. SECONDS HULF HULF HULF
ANODE VOLTS = 125, ANODE CURRENT = 0.1 AMPS.	50	$\mu$ SECONDS
WITH GRID VOLTS =-10, GRID RES.=1000 $\Omega$ , ANODE VOLTS =125, ANODE CURRENT =0.1 AMPS. IONIZATION TIME, APPROX. ANODE VOLTAGE DROP, APPROX. MAXIMUMCCRITICAL GRID CURRENT (AT $\rm E_{bb}^{-}$ 460V. RMS)	100 0.5 8 0.5	μSECONDS μSECONDS VOLTS μAMPS.

CONTINUED ON FOLLOWING PAGE

# ----- TUNS-SOL ---

CONTINUED FROM PRECEDING PAGE

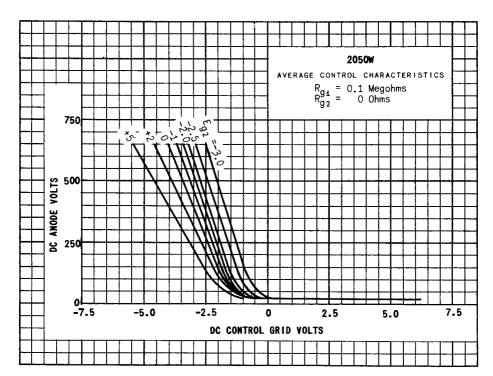
## MECHANICAL DATA

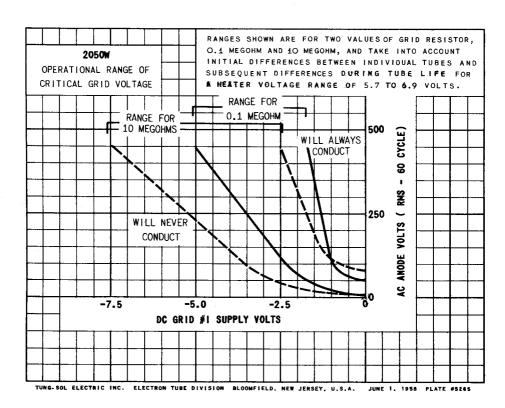
MAXIMUM SHOCK RATING	700	G
MOUNTING POSITION	ANY	G
MAXIMUM OVERALL HEIGHT	4 1/8	INCHES
MAXIMUM SEATED LENGTH	3 9/16	INCHES
MAXIMUM DIAMETER	1 9/16	INCHES
BULB	T-9	
BASE	SMALL SHELL OCTAL 8 PIN	
MAXIMUM NET WEIGHT	2.5	OUNCES

### RATINGS ABSOLUTE VALUES

MAXIMUM PEAK ANODE VOLTAGE			
INVERSE Forward	350 180	1300 650	VOLTS VOLTS
MAXIMUM CATHODE CURRENT	-00	0,0	
PEAK	1.0	1.0	AMPS.
AVERAGE	0.2	0.1	AMPS.
SURGE (MAX. DURATION O.1 SECONDS)	10	10	AMPS.
MAXIMUM AVERAGING TIME	30	30	SECONDS
MAXIMUM NEGATIVE CONTROL GRID VOLTAGE			
BEFORE CONDUCTION	-250	-250	VOLTS
DURING CONDUCTION	-10	-10	VOLTS
MAXIMUM POSITIVE CONTROL GRID CURRENT, AVG.			
(AVERAGING TIME, 1 CYCLE)	0.01	0.01	AMPS.
MAXIMUM NEGATIVE SHIELD GRID VOLTAGE			
BEFORE CONDUCTION	-100	-100	VOLTS
DURING CONDUCTION	-10	-10	VOLTS
MAXIMUM POSITIVE SHIELD GRID CURRENT, AVG.			
(AVERAGING TIME, 1 CYCLE)	0.01	0.01	AMPS.
MAXIMUM CONTROL GRID CIRCUIT RESISTANCE	1.0	10	MEGOHMS
MAXIMUM HEATER-CATHODE VOLTAGE			
HEATER NEGATIVE	~100	-100	VOLTS
HEATER POSITIVE	25	25	VOLTS
AMBIENT TEMPERATURE LIMITS	_	ro+90	°c

<sup>-</sup> INDICATES A CHANGE.





2050W TENTATIVE DATA

