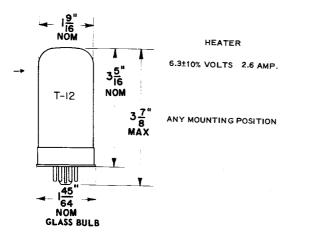
HEATER VOLTACE

TUMB-SOL -

THYRATRON





LARGE WAFER
WITH EXTERNAL BARRIER
6 PIN OCTAL

THE 6012 IS A NEGATIVE CONTROL, XENON FILLED, FOUR ELECTRODE THYRATRON DESIGNED FOR USE IN RELAY AND GRID CONTROLLED RECTIFIER APPLICATIONS. ONE TYPE 6012 WILL CARRY 0.5 AMPERE IN MOTOR-CONTROL AND IN INVERTER SERVICE. USE OF THE SHIELD-GRID TYPE OF CONSTRUCTION PERMITS A VERY LOW PRECONDUCTION CONTROL GRID CURRENT TO FLOW. THIS PERMITS THE USE OF A HIGH RESISTANCE IN THE CONTROL GRID CIRCUIT. THE GRID CONTROL CHARACTERISTIC IS INDEPENDENT OF AMBIENT TEMPERATURE OVER THE RANGE FROM -75 TO +90 DEGREES CENTIGRADE DUE TO THE TUBE'S INERT GAS FILLING. THE 6012 MOUNTS IN A STANDARD OCTAL SOCKET.

ELECTRICAL DATA

HEATER VOLTAGE		
HEATER CURRENT (Ef=6.3 VOLTS)	6.3±10%	VOLTS
MINIMUM CATHODE HEATING TIME	2.6	AMP.
INTERELECTRODE CAPACITANCES -APPROX.	30	SECONDS
ANODE TO CONTROL GRID		
	0.65	μμf
CONTROL GRID TO CATHODE (AND SHIELD GRID)	6.5	μμf
ANODE TO CATHODE (AND SHIELD GRID)	4.5	μμf
ANODE VOLTAGE DROP - APPROX.	12	VOLTS
MAXIMUM CRITICAL GRID CURRENT (AT Epp=460 VOLTS RMS		.02.0
AND ID=0.5 AMP.)	3	μAMPS.
IONIZATION TIME - APPROX.		домгэ,
ANODE VOLTS = 100, ANODE CURRENT = 5 AMPS. , SHIELD		
GRID VOLIS=0, CONTROL GRID =+50 VOLT SQUARE WAVE		
PULSE	0.5	
DEIONIZATION TIME - APPROX NOTE 1	0.5	μSEC.
ANODE VOLTS = 125, ANODE CURRENT = 0.5 AMP., SHIELD		
GRID RESISTOR = 1000 OHMS, CONTROL GRID VOLTS =-13,		
CONTROL GRID RESISTOR = 1000 OHMS		
ANODE VOLTS = 125, ANODE CURRENT = 0.5 AMP., SHIELD	175	μSEC.
GRID RESISTOR = 1000 OHMS, CONTROL GRID VOLTS =		
-100, CONTROL GRID RESISTOR = 1000 OHMS		
	100	μSEC.
(NOTE 1. CONNECT SHIELD GRID TO CATHODE THROUGH SERIES RESI	STOR)	

--- TUNG·SCL ---

CONTINUED FROM PRECEDING PAGE

MECHANICAL DATA

MOUNTING POSITION BULB

ANY T12

BASE

LARGE WAFER OCTAL 6 PIN

MAXIMUM NET WEIGHT

WITH EXTERNAL BARRIER 2.5

2.5 OUNCES

RATINGS

ABSOLUTE VALUES

FOR ANODE- SUPPLY FREQUENCY OF 60 CPS

MAXIMUM PEAK ANODE VOLTAGE		
FORWARD	650	VOLTS
INVERSE	1300	VOLTS
MAXIMUM CATHODE CURRENT		
PEAK	5	AMP.
AVERAGE NOTE 1	0.5	AMP.
SURGE - MAXIMUM DURATION 0.1 SECOND - NOTE 2	20	AMP.
MAXIMUM NEGATIVE CONTROL GRID VOLTAGE		
BEFORE CONDUCTION	200	VOLTS
DURING CONDUCTION - NOTE 1	10	VOLTS
MAXIMUM POSITIVE CONTROL GRID CURRENT		,
AVERAGE NOTE 1	0.05	AMP.
MAXIMUM NEGATIVE SHIELD GRID VOLTAGE		
BEFORE CONDUCTION	100	VOLTS
DURING CONDUCTION - NOTE 1	10	VOLTS
MAXIMUM POSITIVE SHIELD GRID CURRENT - NOTE 1	0.05	AMP.
MAXIMUM HEATER - CATHODE VOLTAGE		
HEATER NEGATIVE	100	VOLTS
HEATER POSITIVE	25	VOLTS
MAXIMUM CONTROL GRID CIRCUIT RESISTANCE	2	MEGOHMS

^{1.} AVERAGED OVER ANY INTERVAL OF 30 SECONDS MAXIMUM.

THE EQUIPMENT DESIGNER SHOULD LIMIT THE SHORT CIRCUIT CURRENT TO 20 AMPERES CIRCUITWISE.
IT SHOULD BE UNDERSTOOD THAT WHILE THE TUBE MAY STAND SEVERAL FAULTS AT THIS MAGNITUDE
OF CURRENT, EACH FAULT WILL ADVERSELY AFFECT TUBE LIFE.

⁻⁻⁻ INDICATES A CHANGE.