



5560

5560

THYRATRON MERCURY-VAPOR TETRODE

DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage.	5.5 [□]	5.0	volts
Current.	5.0 [□]	4.5	amp

Cathode:

Minimum Heating Time, prior to tube conduction	5	minutes
--	---	---------

Direct Interelectrode Capacitances (Approx.):

Grid No.1 to Anode	0.2	μmf
Grid No.1 to Cathode	4.4	μmf ←

Ionization Time (Approx.) 10 μsec

Deionization Time (Approx.) 1000 μsec

Anode Voltage Drop (Approx.) 16 volts

Grid-No.1 Control Ratio (Approx.) with grid-No.1 resistor (ohms) = 0; grid-No.1 and grid-No.2 volts = 0 170 ←

Grid-No.2 Control Ratio (Approx.) with grid-No.1 resistor (ohms) = 0; grid-No.1 and grid-No.2 volts = 0 300 ←

Mechanical:

Mounting Position. Vertical, Base Down

Overall Length 7-11/16" ± 1/4" ←

Seated Length. 7-1/16" ± 1/4" ←

Greatest Radius. 2-1/4" ←

Bulb ST-23

Caps (Two) Medium

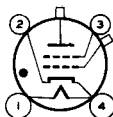
Base Medium-Shell Small 4-Pin, Bayonet

Basing Designation for BOTTOM VIEW 4CD

Pin 1-Heater

Pin 2-Cathode;
Circuit
Returns

Pin 3-Grid No.2



Pin 4-Heater,
Cathode

Top Cap-Anode

Side Cap-Grid No.1

Maximum Ratings, Absolute Values:

PEAK ANODE VOLTAGE:

Forward.	1000 max.	volts
Inverse.	1000 max.	volts

GRID-No.2 (SHIELD-GRID) VOLTAGE:

Before Conduction.	-300 max.	volts
During Conduction.	-5 max.	volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Before Conduction.	-1000 max.	volts
During Conduction.	-10 max.	volts ←

CATHODE CURRENT:

Peak	30 max. [□]	15 max.	amp
Average**	0.5 max. [□]	2.5 max.	amp
Fault, for 0.1 sec. maximum.		200 max.	amp

□ **: See next page.

← Indicates a change.

5560



5560

THYRATRON

GRID-No.2 CURRENT:

Average** 0.25 max. amp

GRID No.1 CURRENT:

Average** 0.25 max. amp

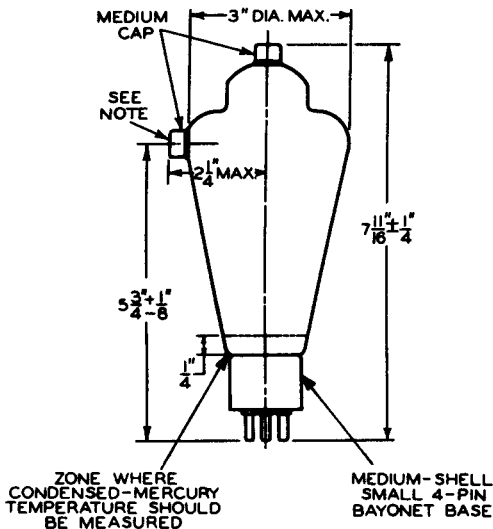
COND.-MERCURY TEMPERATURE RANGE[▲] +40 to +80 °C

OPERATING FREQUENCY. 150 max. cps

□ Applies when this tube is used for ignitor firing.

** Averaged over any interval of 15 sec. max.

▲ Recommended operating temperature is 40°C.



92CS-6742R1

NOTE: THE PLANE THROUGH TUBE AXIS AND CENTER OF GRID-No.1 CAP IS $45^\circ \pm 5^\circ$ FROM THE PLANE THROUGH THE TUBE AXIS AND CENTER OF BAYONET PIN. GRID-No.1 CAP IS ON SAME SIDE AS PIN No.3.

TEMPERATURE-RISE CHARACTERISTIC of the 5560
is the same as that shown for Type 5559



5560

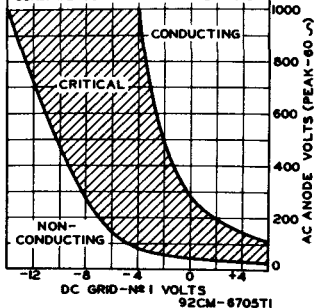
THYRATRON

5560

OPERATIONAL RANGE
OF CRITICAL GRID VOLTAGE

TYPE 5560

RANGE IS FOR CONDITIONS WHERE:
 $E_f = 5$ VOLTS AC $\pm 5\%$; GRID-Nº 2 (SHIELD)
 VOLTS = 0; CIRCUIT RETURNS TO PIN Nº
 2. THE RANGE INCLUDES INITIAL AND
 LIFE VARIATIONS OF INDIVIDUAL TUBES,
 AS WELL AS CHANGE IN CHARACTERIS-
 TICS DUE TO HEATER PHASING.
 GRID-Nº 1 RESISTOR (OHMS) = 0
 COND.-MERCURY TEMPERATURE = 40°C

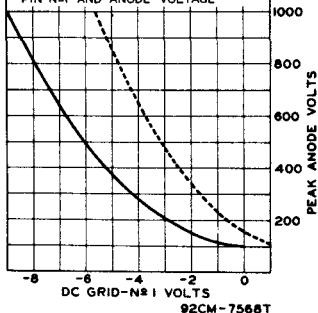
SHIFT OF AVERAGE
CONTROL CHARACTERISTIC
WITH CHANGE IN HEATER PHASING

TYPE 5560

$E_f = 5$ VOLTS AC
 GRID-Nº 2 (SHIELD) VOLTS = 0
 CONDENSED-MERCURY TEMPERATURE = 40°C
 GRID-Nº 1 RESISTOR (OHMS) = 0

CURVE	PHASE ANGLE DEGREES *	CIRCUIT RETURN
—	180°	PIN Nº 2
- - -	0°	PIN Nº 2

* BETWEEN HEATER VOLTAGE AT
 PIN Nº 1 AND ANODE VOLTAGE



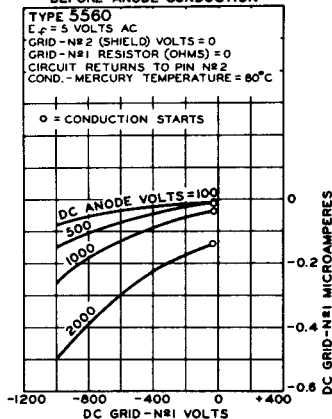
5560



5560

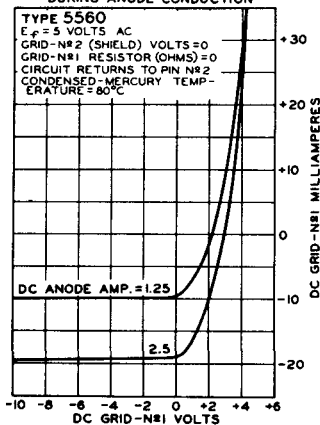
THYRATRON

AVERAGE GRID CHARACTERISTICS BEFORE ANODE CONDUCTION



92CM-7556T

AVERAGE GRID CHARACTERISTICS DURING ANODE CONDUCTION



92CM-7570T