



502-A THYRATRON GAS TETRODE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage.	6.3	ac or dc volts
Current.	0.6	amp

Cathode:

Heating Time, prior to tube conduction.	10	sec
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Direct Interelectrode Capacitance (Approx.):

Grid No.1 to Anode	0.2	$\mu\mu\text{f}$
ionization Time (Approx.).	5	μsec
Deionization Time (Approx.) 1000		μsec

Maximum Critical Grid-

No.1 Current.	4	μamp
Anode Voltage Drop(Approx.)	11	volts

Approximate Control Characteristics

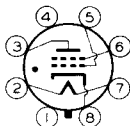
(With 0.1-megohm grid-No.1 resistor):

Peak Anode Voltage	30	100	650	volts
Grid-No.1 Voltage.	0	-1.5	-3.75	volts
Grid-No.2 Voltage.	0	0	0	volts

Mechanical:

Mounting Position.	Any
Maximum Overall Length	2-5/8" ←
Seated Length.	1-31/32" ± 3/32" ←
Maximum Diameter	1-5/16" ←
Bulb	Metal Shell MT-8 ←
Base	Small-Wafer Octal 8-Pin
Basing Designation for BOTTOM VIEW	6B5

- Pin 1 - No Connection
- Pin 2 - Heater
- Pin 3 - Anode
- Pin 4 - No Connection
- Pin 5 - Grid No.1



- Pin 6 - Grid No.2
- Pin 7 - Heater
- Pin 8 - Cathode, Shell

RELAY and GRID-CONTROLLED RECTIFIER SERVICE

Maximum Ratings, Absolute Values:

PEAK ANODE VOLTAGE:

Forward.	650 max.	volts
Inverse.	1300 max.	volts

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

Peak, before anode conduction.	-100 max.	volts
Average, during anode conduction [□]	-5 max.	volts

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

Peak, before anode conduction.	-200 max.	volts
Average, during anode conduction [□]	-10 max.	volts

[□] See next page.

← Indicates a change.

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CATHODE CURRENT:

Peak	1.0 max.	amp
Average [□]	0.1 max.	amp
Surge, for duration of 0.1 sec. max. . .	10 max.	amp

GRID-No.2 CURRENT:

Average [□]	10 max.	ma
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GRID-No.1 CURRENT:

Average [□]	10 max.	ma
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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode.	100 max.	volts
Heater positive with respect to cathode.	25 max.	volts

AMBIENT TEMPERATURE RANGE. -55 to +90 °C

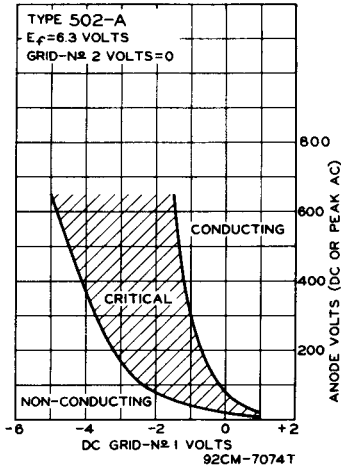
[□] Averaged over any interval of 30 sec. max.



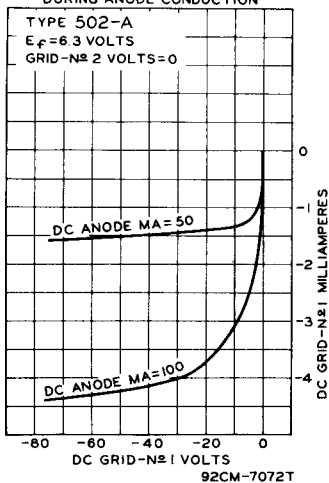
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OPERATIONAL RANGE OF CRITICAL GRID-N₂1 VOLTAGE



AVERAGE GRID CHARACTERISTICS DURING ANODE CONDUCTION



SEPT. 30, 1948

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

CE-7074T-7072T