

Gas and Mercury-Vapor Thyatron

NEGATIVE-CONTROL TRIODE TYPE

GENERAL DATA

Electrical:^a

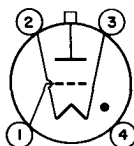
Filament, Coated:

Voltage (AC or DC)	2.5	volts
Current at 2.5 volts.	21 ± 2	amp
Minimum heating time prior to tube conduction	60	sec
Direct Interelectrode Capacitance (Approx.): ^b		
Grid to anode	4	μf
Ionization Time (Approx.)	10	μsec
Deionization Time (Approx.)	1000	μsec
Maximum Critical Grid Current	10	μa
Peak Tube Voltage Drop at anode amperes = 20.	12	volts

Mechanical:

Operating Position.	Vertical, base down
Maximum Overall Length.	9-1/2"
Maximum Diameter.	2-9/16"
Weight (Approx.)	9 oz
Cap	Medium (JEDEC No.C1-5)
Socket.	Super-Jumbo 4-Contact
Base.	Large-Metal-Shell Super-Jumbo 4-Pin with Bayonet (JEDEC No.A4-18)
Basing Designation for BOTTOM VIEW.	4BZ

Pin 1-Grid
Pin 2-Filament
Pin 3-Filament



Pin 4-No Internal
Connection
Cap-Anode

Thermal:

Type of Cooling	Convection
Temperature Rise of Condensed Mercury to Equilibrium Above Ambient Temperature (Approx.)	30 °C

GRID-CONTROLLED-RECTIFIER SERVICE^a

Maximum and Minimum Ratings, Absolute-Maximum Values:

For anode-supply frequency of 60 cps

PEAK ANODE VOLTAGE:

Forward.	1500 max.	volts
Inverse.	1500 max.	volts

PEAK NEGATIVE GRID VOLTAGE:

Before tube conduction	500 max.	volts
During tube conduction	10 max.	volts



RADIO CORPORATION OF AMERICA
Electron Tube Division
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DATA
5-62

760/6858

CATHODE CURRENT:

Peak.	77 max.	amp
Average ^c	6.4 max.	amp
Fault	770 max.	amp

CONDENSED-MERCURY TEMPERATURE RANGE

(Operating) ^d	-40 to +80	°C
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^a With circuit returns to filament-transformer center-tap.

^b Without external shield.

^c Averaged over any interval of 15 seconds maximum.

^d For longest life, the operating condensed-mercury temperature range after warm-up should be kept between +40° and +80° C which corresponds approximately to +10° to +50° C ambient.

