Gas and Mercury-Vapor Thyratron

NEGATIVE-CONTROL TRIODE TYPE

GENERAL DATA

Electrical:
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.) .......... \(4 \mu\text{F}\)
Ionization Time (Approx.) .............. 10 \(\mu\text{sec}\)
Deionization Time (Approx.) .......... 1000 \(\mu\text{sec}\)
Maximum Critical Grid Current ........... 10 \(\mu\text{a}\)
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 \(^\circ\text{C}\)

GRID-CONTROLLED-RECTIFIER SERVICE

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
CATHODE CURRENT:

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

CONDENSED-MERCURY TEMPERATURE RANGE

(Operating) .............................. –40 to +80 °C

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.