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 ............. 6.3 ± 0.8 amp
  Minimum heating time prior to tube conduction .......... 15 sec
Direct Inter electrode Capacitance (Approx.):
  Grid to anode ....................... 3 μf
  Ionization Time (Approx.) ........ 10 μsec
  Deionization Time (Approx.) .... 1000 μsec
  Maximum Critical Grid Current .... 10 µa
  Peak Tube Voltage Drop at anode amperes = 5 .......... 8 volts

Mechanical:
Operating Position .................. Vertical, base down
Maximum Overall Length ........... 4-3/8"
Diameter .......................... 1.438" to 1.562"
Weight (Approx.) .................. 3 oz
Bulb ............................. T12
Socket ............................. Small 4-Contact
Base ................................ Medium-Shell Small 4-Pin
Basing Designation for BOTTOM VIEW .................. 4D

Pin 1—Filament
Pin 2—Anode
Pin 3—Grid
Pin 4—Filament

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

GRID-CONTROLLED-RECTIFIER SERVICE

Maximum and Minimum Ratings, Absolute-Maximum Values:
For anode-supply frequency of 60 cps

PEAK ANODE VOLTAGE:
  Forward .......................... 1250 max. volts
  Inverse .......................... 1250 max. volts

PEAK NEGATIVE GRID VOLTAGE:
  Before tube conduction .......... 500 max. volts
  During tube conduction .......... 10 max. volts
CATHODE CURRENT:

Peak. .......................... 8 max. amp
Average° .......................... 1 max. amp
Fault ................................ 80 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 5 seconds maximum.
\( ^{d} \) For longest life, the operating condensed-mercury temperature range after warm-up should be kept between +40°C and +80°C which corresponds approximately to +10°C to +50°C ambient.