

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. 6.3 ± 0.8 amp

Minimum heating time prior to
tube conduction 15 sec

Direct Interelectrode Capacitance (Approx.):^b

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

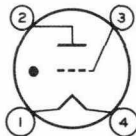
Socket. Small 4-Contact

Base. Medium-Shell Small 4-Pin
with Bayonet (JEDEC No. A4-10)

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 Equi-
librium Above Ambient Temperature (Approx.) . 30 $^{\circ}\text{C}$

GRID-CONTROLLED-RECTIFIER SERVICE^a

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 ^c	1 max.	amp
Fault	80 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 5 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.

