

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

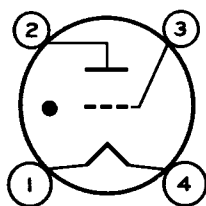
Direct Interelectrode Capacitance (Approx.):^b

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 °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



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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.

