

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.	5.0 ± 0.5	amp
Minimum heating time prior to tube conduction	5	sec

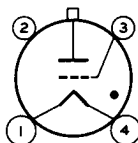
Direct Interelectrode Capacitance (Approx.):^b

Grid to anode	2	μf
Ionization Time (Approx.)	10	μsec
Deionization Time (Approx.)	1000	μsec
Maximum Critical Grid Current	5	μa
Peak Tube Voltage Drop at anode amperes = 3	15	volts

Mechanical:

Operating Position.	Vertical, base down
Maximum Overall Length.	6-1/8"
Maximum Diameter.	2-1/16"
Weight (Approx.).	3 oz
Bulb.ST16
Cap	Medium (JEDEC No.C1-5)
Socket.	Small 4-Contact
Base.	Medium-Shell Small 4-Pin with Bayonet (JEDEC No.A4-10)
Basing Designation for BOTTOM VIEW.3G

Pin 1 - Filament
Pin 2 - No Internal
Connection



Pin 3 - Grid
Pin 4 - Filament
Cap - Anode

Thermal:

Type of Cooling	Convection
Temperature Rise of Condensed Mercury to Equi- librium Above Ambient Temperature (Approx.)	15 °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



ANODE CURRENT:

Peak	3 max.	amp
Average ^c	1 max.	amp
Fault	50 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.

