

Gas and Mercury-Vapor Thyatron

NEGATIVE-CONTROL TRIODE TYPE

GENERAL DATA

Electrical:

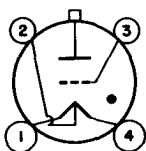
Filament, Coated:

Voltage (AC or DC) between pins 1 and 4.	2.5	volts
Current at 2.5 volts	9 ± 2	amp
Minimum heating time prior to tube conduction.	20	sec
Direct Interelectrode Capacitances (Approx.): ^a		
Grid to anode.	2	μft
Grid to cathode.	12	μft
Ionization Time (Approx.).	10	μsec
Deionization Time (Approx.).	1000	μsec
Peak Tube Voltage Drop at anode amperes = 8.	10	volts

Mechanical:

Operating Position	Vertical, base down
Maximum Overall Length	6-1/4"
Maximum Diameter	1-5/8"
Weight (Approx.)	4 oz
Bulb	T13
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	.4CF

Pin 1 - Filament
Pin 2 - Filament
Tap, Circuit Returns



Pin 3 - Grid
Pin 4 - Filament
Cap - Anode

Thermal:

Type of Cooling.	Convection
Temperature Rise of Condensed Mercury to Equilibrium Above Ambient Temperature (Approx.):	
No load.	25 °C
Full load.	30 °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.	30 max.	amp
Average ^b	2.5 max.	amp
Fault	250 max.	amp

CONDENSED-MERCURY TEMPERATURE

RANGE (Operating) ^c	-40 to +80	°C
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^a Without external shield.

^b Averaged over any interval of 5 seconds maximum.

^c 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.

