Gas and Mercury-Vapor Thyratron

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	μμf
Grid to cathode	12	μμf
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

[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.