Xenon Thyratron

NEGATIVE-CONTROL TRIODE TYPE

GENERAL DATA

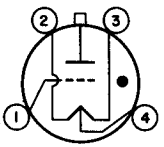
Electrical:

	Min.	Av.	Max.	
Filament, Coated and Mid-Tapped:				
Voltage (AC or DC) between pins 2 and 3	2.4	2.5	2.6	volts
Current	7	9	11	amp
Minimum heating time prior to tube conduction		30		sec
Direct Interelectrode Capacitances (Approx.):				
Grid to anode		2		$\mu\mu$f
Ionization Time (Approx.)		10		μsec
Deionization Time (Approx.)		1000		μsec
Maximum Critical Grid Current		10		μa
Anode Voltage Drop at peak anode amperes = 10		10		volts
Maximum Commutation Factor[a] averaged over first 350 volts of inverse anode-voltage rise		0.66		va/μsec^2

Mechanical:

Operating Position	Any
Maximum Overall Length	6-3/4"
Maximum Seated Length	6"
Maximum Diameter	2-3/16"
Weight (Approx.)	3 oz
Cap	Medium (JEDEC No. C1-5)
Base	Special Metal Shell

Terminal Diagram: BOTTOM VIEW



Pin 1 – Grid
Pin 2 – Filament
Pin 3 – Filament
Pin 4 – Filament Tap & Circuit Returns
Cap – Anode

GRID-CONTROLLED-RECTIFIER SERVICE

Maximum and Minimum Ratings, *Absolute-Maximum Values:*

For anode supply frequency of 60 cps

PEAK ANODE VOLTAGE:		
Forward	900 max.	volts
Inverse	1250 max.	volts
PEAK NEGATIVE GRID VOLTAGE:		
Before tube conduction	100 max.	volts
During tube conduction	10 max.	volts

ANODE CURRENT:		
Peak	30 max.	amp
Average[b]	2.5 max.	amp
Fault	300 max.	amp
AMBIENT-TEMPERATURE RANGE during operation	−55 to +75	°C

[a] Defined as the product of the rate of current decay in amperes per microsecond just before conduction ceases and the rate of inverse-voltage rise in volts per microsecond following current conduction.

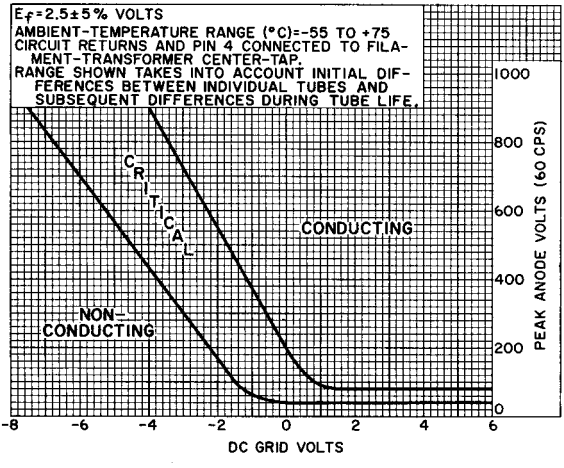
[b] Averaged over any period of 4.5 seconds.

OPERATING CONSIDERATIONS

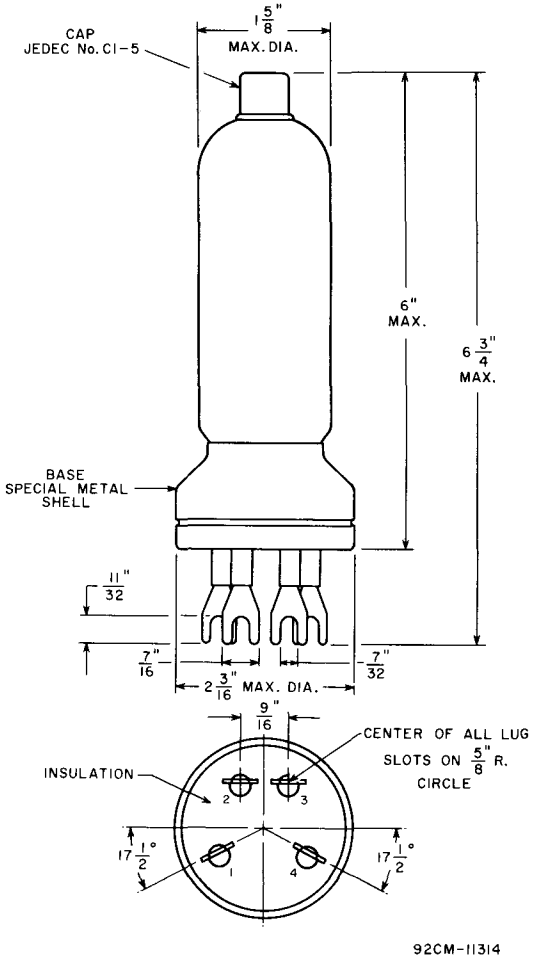
Circuit returns should be connected to filament mid-tap (Pin 4).

Sufficient *anode-circuit resistance*, including the tube load, must be used under any conditions of operation to prevent exceeding the maximum current ratings of the tube.

OPERATIONAL RANGE OF CRITICAL GRID VOLTAGE



92CS-11323


CAP
JEDEC No. C1-5
1 5/8" MAX. DIA.
6" MAX.
6 3/4" MAX.
BASE
SPECIAL METAL SHELL
11/32"
7/16"
7/32"
2 3/16" MAX. DIA.
9/16"
CENTER OF ALL LUG SLOTS ON 5/8" R. CIRCLE
INSULATION
2
3
1
4
17 1/2°
17 1/2°
92CM-11314