

Xenon Thyatron

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	μf
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	$\text{va}/\mu\text{sec}^2$

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

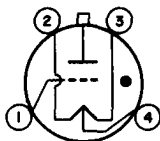
Terminal Diagram:

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

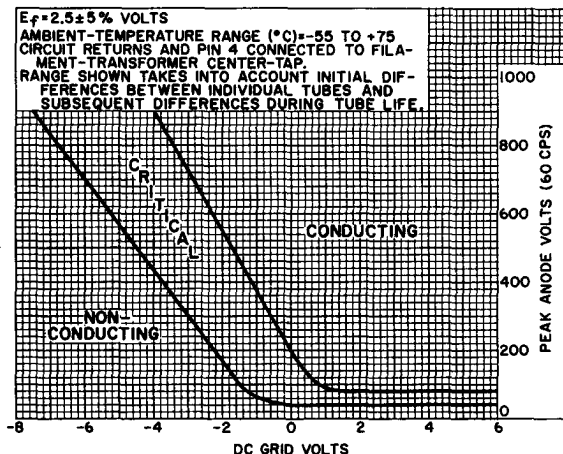
- ^a Defined as the product of the rate of current decay in amperes per microsecond just before conduction ceases and the rate of inverse-voltage rise in volts per microsecond following current conduction.
- ^b Averaged over any period of 4.5 seconds.

OPERATING CONSIDERATIONS

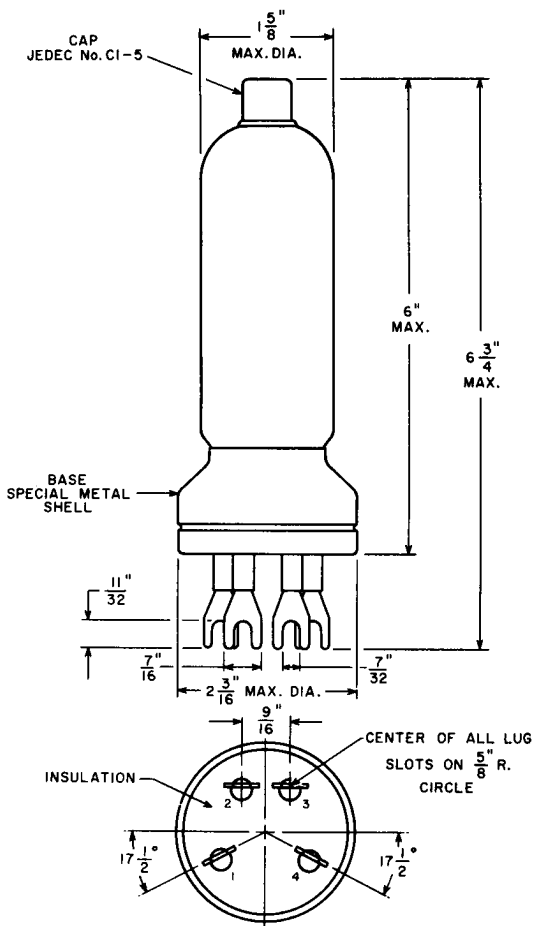
Circuit returns should be connected to filament mid-tap (Pin 4).

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



92CM-11314

