

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 μ fIonization Time (Approx.) 10 μ secDeionization Time (Approx.) 1000 μ secMaximum Critical Grid Current 10 μ a

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

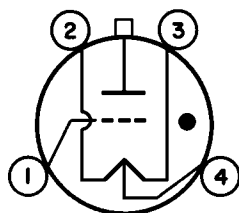
Terminal Diagram:

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

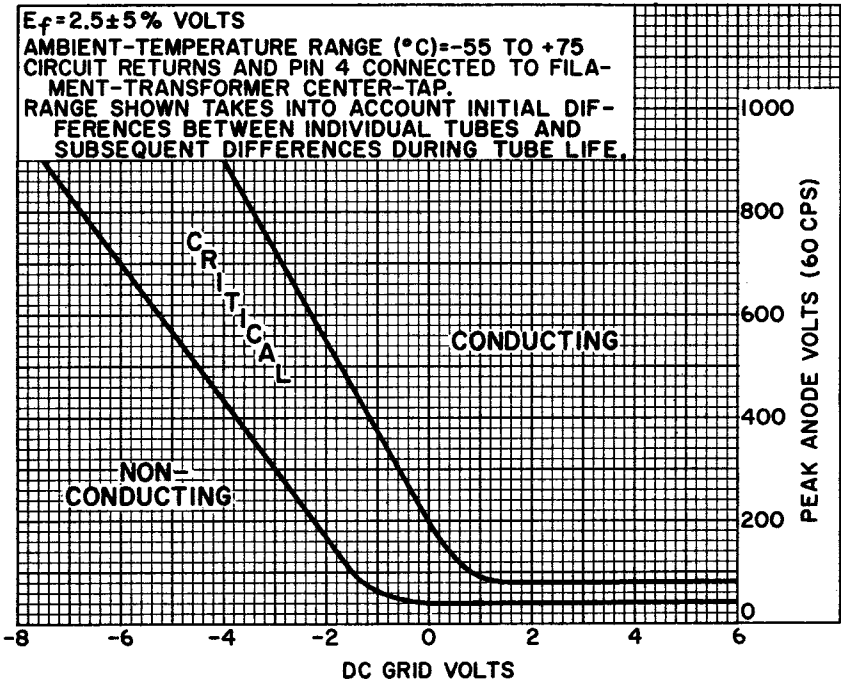
- ^a Defined as the product of the rate of current decay in amperes per microsecond just before conduction ceases and the rate of inverse-voltage rise in volts per microsecond following current conduction.
- ^b Averaged over any period of 4.5 seconds.

OPERATING CONSIDERATIONS

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

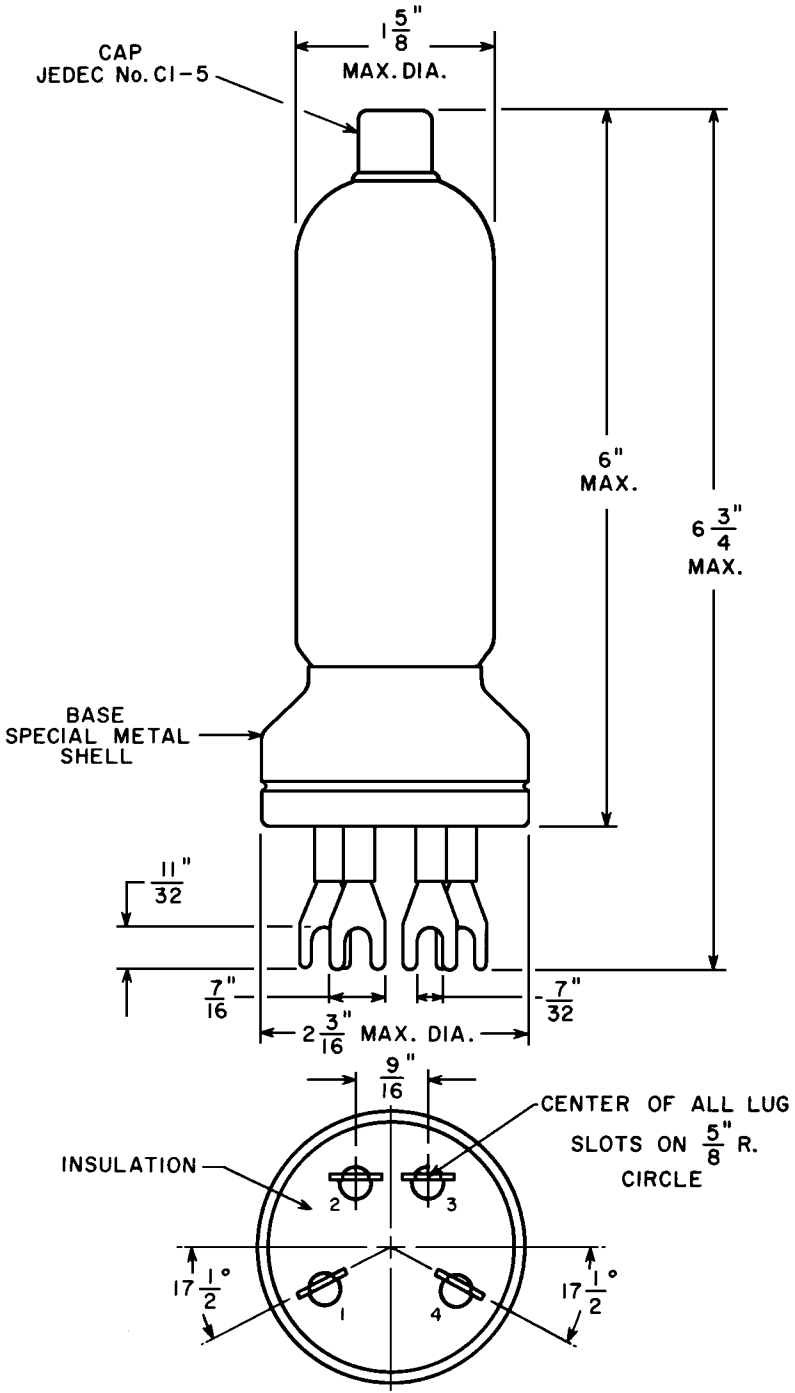
Sufficient anode-circuit resistance, including the tube load, must be used under any conditions of operation to prevent exceeding the maximum current ratings of the tube.

**OPERATIONAL RANGE
OF CRITICAL GRID VOLTAGE**



92CS-11323





92CM-11314