

Full-Wave Vacuum Rectifier

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3	volts
Current	1	amp

Mechanical:

Operating Position	Any
Maximum Overall Length	3-1/16"
Maximum Seated Length	2-13/16"
Length, Base Seat to Bulb Top (Excluding tip)	2-7/16" $\pm$ 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	.9M

Pin 1 - Plate No.1
 Pin 2 - No Connection
 Pin 3 - Cathode
 Pin 4 - Heater
 Pin 5 - Heater



Pin 6 - No Connection
 Pin 7 - Plate No.2
 Pin 8 - No Connection
 Pin 9 - No Connection

FULL-WAVE RECTIFIER

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE	1000 max.	volts
AC PLATE SUPPLY VOLTAGE PER PLATE (RMS):		
With capacitor-input to filter	350 max.	volts
PEAK PLATE CURRENT PER PLATE	450 max.	ma
DC OUTPUT CURRENT	150 max.	ma
HOT-SWITCHING TRANSIENT PLATE CURRENT PER PLATE:		

Even occasional hot-switching with capacitor-input circuits permits the flow of plate current having magnitudes which can adversely affect the life and reliability of tubes. If capacitor-input circuits are to be used, protect the circuits against possible adverse effects of hot-switching by the use of a circuit arrangement which will limit the maximum peak current value per plate to a value of 1 ampere during the initial cycles of the hot-switching transient.

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 500 max. volts



6CA4

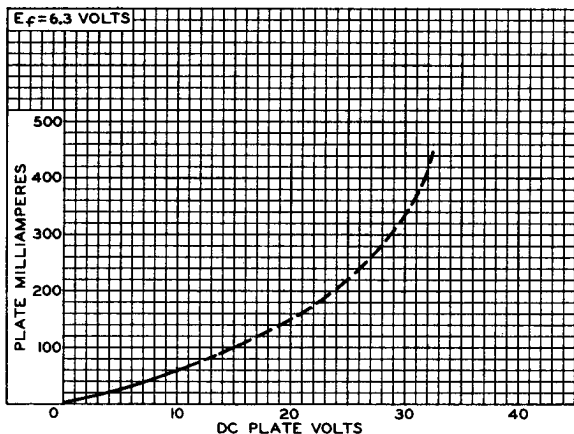
Typical Operation:

With capacitor input to filter

AC Plate-To-Plate Supply				
Voltage (RMS)	500	600	700	volts
Filter-Input Capacitor	50	50	50	μ f
Total Effective Plate-Supply				
Impedance Per Plate	150	200	240	ohms
DC Output Voltage at Input to				
Filter (Approx.) for dc output				
ma. = 150.	245	293	347	volts

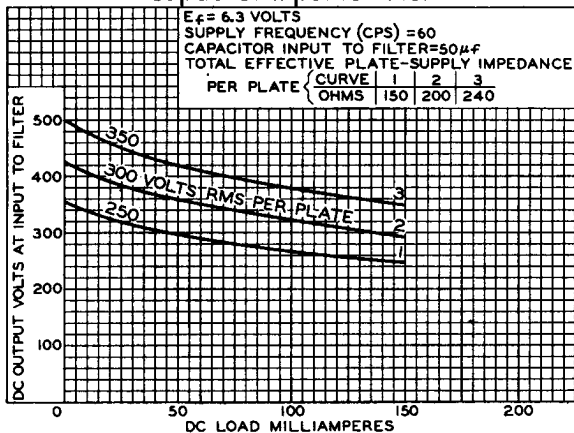


AVERAGE PLATE CHARACTERISTIC Each Unit



92CS-10378

OPERATION CHARACTERISTICS Capacitor Input to Filter



92CS-10379

