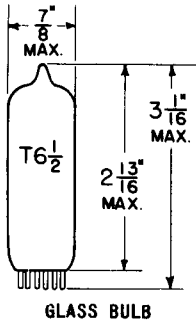


TUNG-SOL

TWIN DIODE
MINIATURE TYPE



6-4

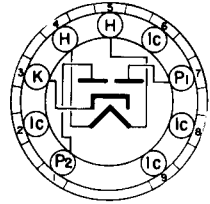
COATED UNIPOTENTIAL CATHODE

HEATER

6.3±10% VOLTS 1.0 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
SMALL BUTTON
9 PIN BASE
9M

THE 6CA4 IS A HEATER-CATHODE TWIN DIODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR FULL-WAVE RECTIFIER OPERATION, AND ESPECIALLY SUITABLE FOR COMPACT AMPLIFIER DESIGNS.

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

RECTIFIER SERVICE

| | | |
|---|---------------------|-------|
| MAXIMUM PEAK INVERSE PLATE VOLTAGE | 1200 | VOLTS |
| MAXIMUM AC PLATE-SUPPLY VOLTAGE PER PLATE | SEE RATING CHART #1 | |
| MAXIMUM STEADY STATE PEAK PLATE CURRENT PER PLATE | 500 | MA. |
| MAXIMUM TRANSIENT PEAK PLATE CURRENT PER PLATE, MAXIMUM DURATION 0.2 SECONDS | 1.85 | AMP. |
| MAXIMUM DC OUTPUT CURRENT | SEE RATING CHART #1 | |
| MAXIMUM HEATER-CATHODE VOLTAGE: HEATER NEGATIVE WITH RESPECT TO CATHODE | 500 | VOLTS |

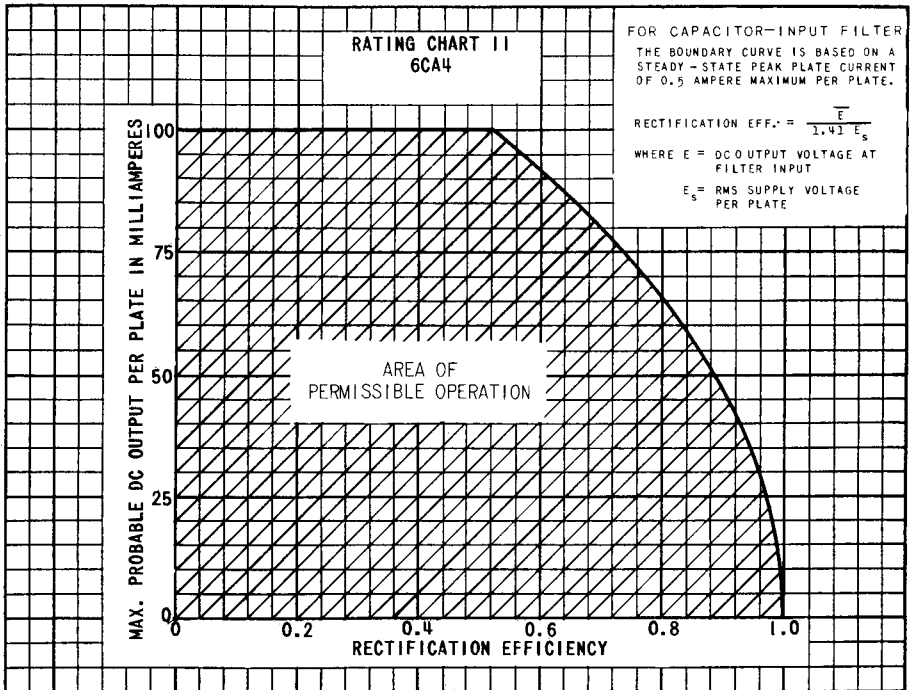
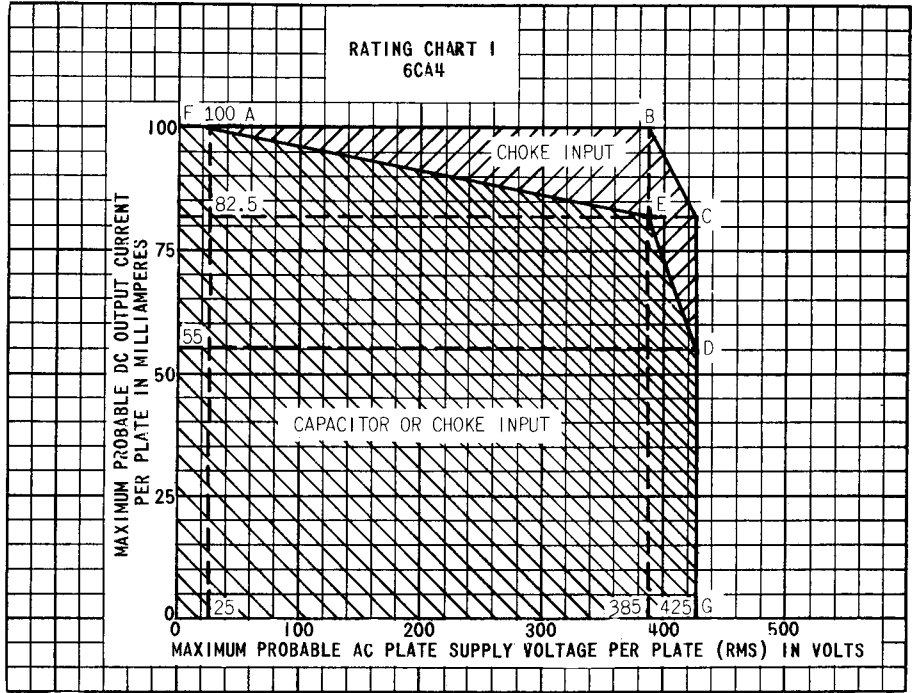
TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

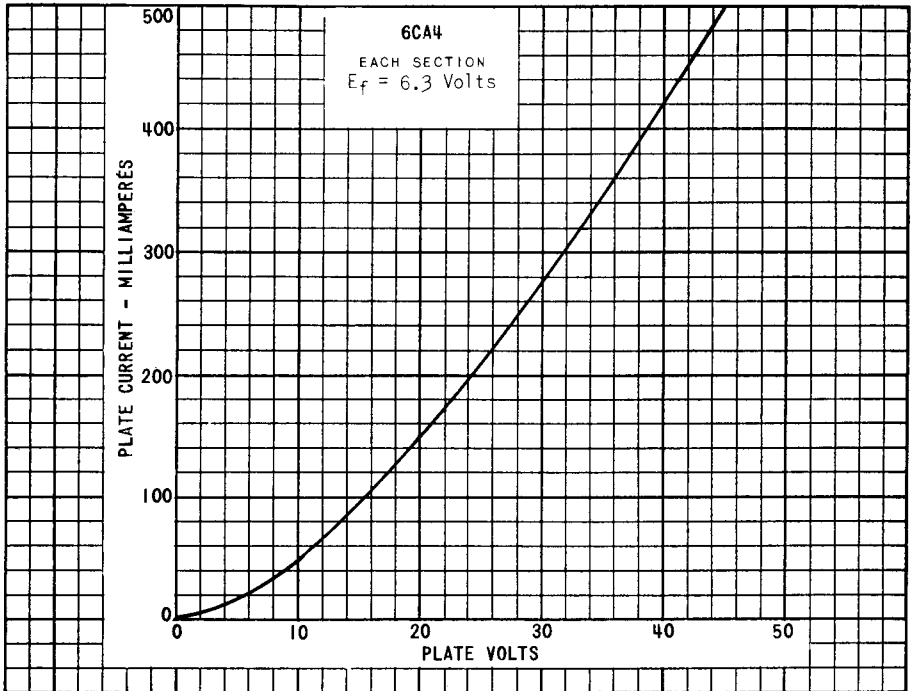
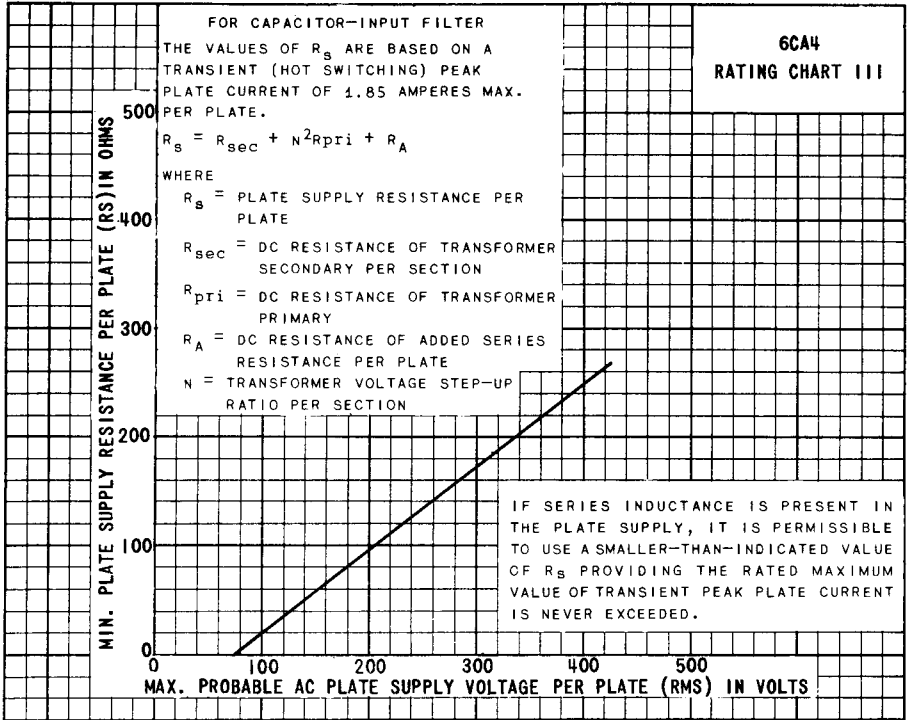
FULL-WAVE RECTIFIER WITH CAPACITOR-INPUT FILTER

| | | | | |
|--|-----|-----|-----|-------|
| AC PLATE VOLTAGE PER PLATE, RMS | 250 | 300 | 350 | VOLTS |
| FILTER INPUT CAPACITOR | 50 | 50 | 50 | μf |
| TOTAL PLATE-SUPPLY RESISTANCE PER PLATE | 150 | 200 | 240 | OHMS |
| DC OUTPUT CURRENT | 150 | 150 | 150 | MA. |
| DC OUTPUT VOLTAGE AT FILTER INPUT | 245 | 293 | 347 | VOLTS |
| TUBE VOLTAGE DROP I _b = 150 MA. DC PER PLATE | | | 20 | VOLTS |

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

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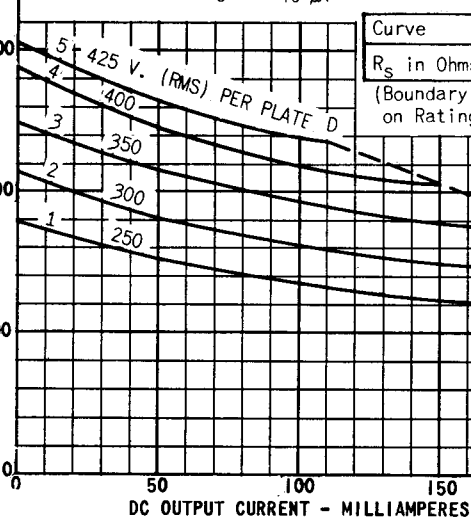
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6CA4

FULL WAVE RECTIFIER WITH CAPACITOR INPUT FILTER

$E_f = 6.3$ Volts
 $C = 40 \mu f$

DC OUTPUT VOLTAGE AT INPUT TO FILTER IN VOLTS



| Curve | 1 | 2 | 3 | 4 | 5 |
|---------------|-----|-----|-----|-----|-----|
| R_s in Ohms | 136 | 172 | 210 | 248 | 265 |

(Boundary Line DEA is same as Shown on Rating Chart 1)

