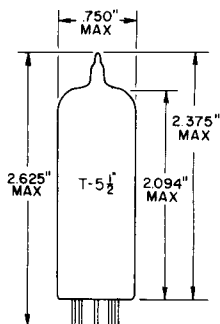


TUNG-SOL

MINIATURE TYPE

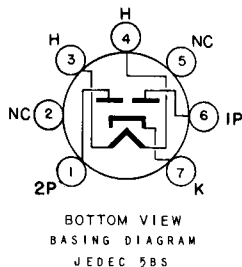


GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-3

COATED UNIPOTENTIAL CATHODE

FULL WAVE RECTIFIER

ANY MOUNTING POSITION



THE 6X4 IS A HEATER-CATHODE TYPE POWER RECTIFIER IN THE MINIATURE CONSTRUCTION. ITS LOW VOLTAGE DROP AND SMALL SIZE ADAPT IT TO USE WITH VIBRATOR-TYPE INVERTERS IN AUTOMOBILE RECEIVERS.

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

| | | | |
|---|-----------|---------|-------|
| AVERAGE CHARACTERISTICS | 6.3 VOLTS | 600 | MA. |
| TUBE VOLTAGE DROP (MEASURED WITH TUBE CONDUCTING 70 MA EACH PLATE) | | 22 | VOLTS |
| HEATER SUPPLY LIMITS: | | | |
| VOLTAGE OPERATION ^A | | 6.3±0.6 | VOLTS |
| MAXIMUM HEATER CATHODE VOLTAGE: | | | |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | | | |
| DC | | 450 | VOLTS |
| TOTAL DC AND PEAK | | 450 | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | | |
| DC | | 100 | VOLTS |
| TOTAL DC AND PEAK | | 200 | VOLTS |

→ MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

| | | | |
|--|-------------|------|-------|
| PEAK INVERSE PLATE VOLTAGE | | 1250 | VOLTS |
| AC PLATE SUPPLY VOLTAGE EACH PLATE (RMS) | SEE CHART I | | |
| DC OUTPUT CURRENT EACH PLATE | SEE CHART I | | |
| STEADY STATE PEAK PLATE CURRENT EACH PLATE (SEE CHART II) | | 245 | MA. |
| TRANSIENT PEAK PLATE CURRENT EACH PLATE (SEE CHART III) | | 1.1 | AMP. |
| VIBRATOR OPERATION (MINIMUM DUTY CYCLE OF 75%) | | | |
| DC OUTPUT VOLTAGE (AT FILTER INPUT) | | 350 | VOLTS |
| DC OUTPUT CURRENT EACH PLATE | | 45 | MA. |

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

→ TYPICAL OPERATING CHARACTERISTICS
FULL-WAVE RECTIFIER

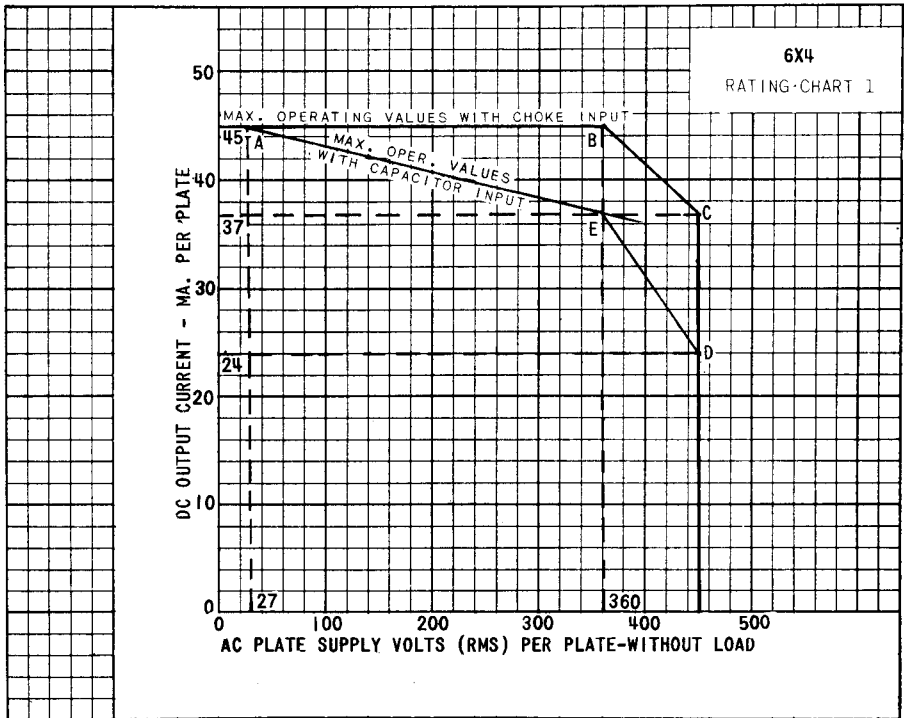
| | SINE WAVE OPERATION INPUT TO FILTER | | VIBRATOR OPERATION INPUT TO FILTER | |
|--|--|-------|---------------------------------------|--------|
| | CAPACITOR | CHOKE | CAPACITOR | |
| AC PLATE SUPPLY VOLTAGE EACH PLATE (RMS) ^B | 325 | 400 | --- | VOLTS |
| INPUT CAPACITOR | 10 | --- | 10 | μf |
| INPUT CHOKE | --- | 10 | --- | HENRYS |
| EFFECTIVE PLATE SUPPLY IMPEDANCE EACH PLATE | 525 | --- | --- | OHMS |
| DC OUTPUT CURRENT | 70 | 70 | 70 | MA. |
| DC OUTPUT VOLTAGE AT FILTER INPUT (APPROX.) | 310 | 340 | 240 | VOLTS |

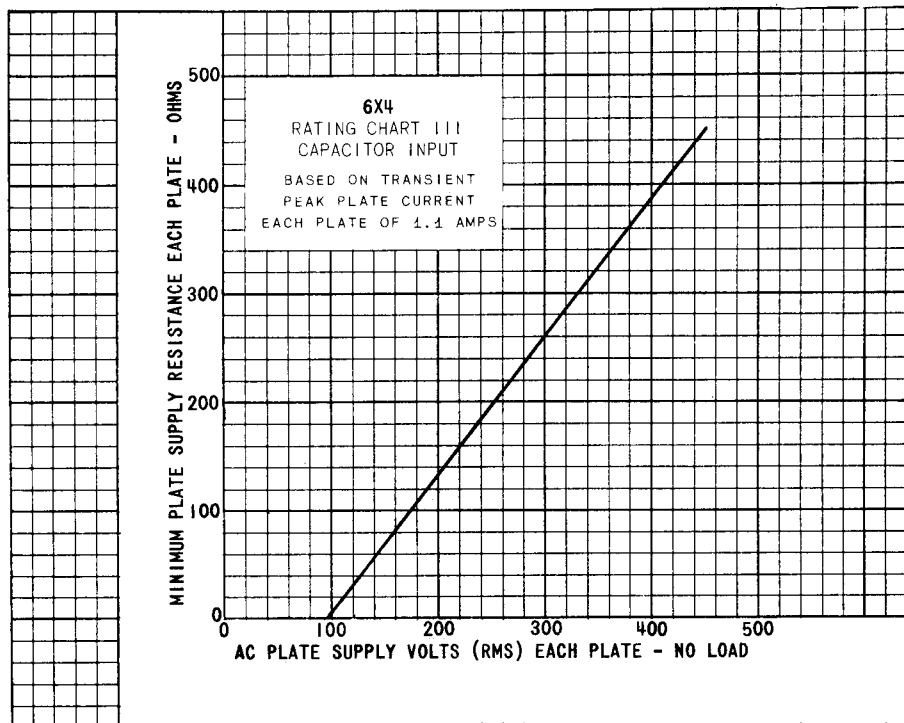
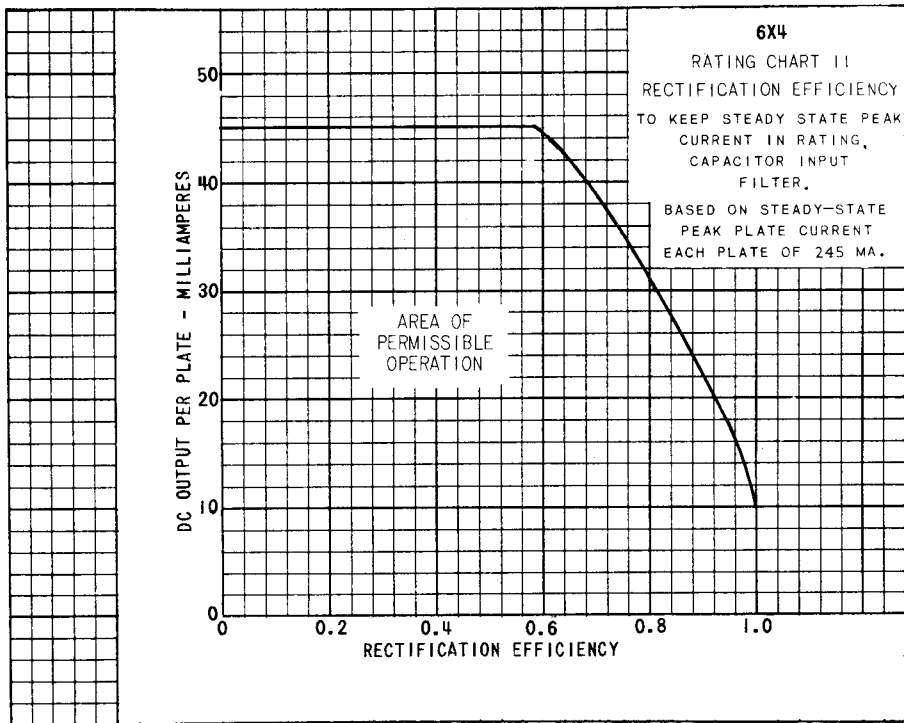
A
WHEN USED IN AUTOMOTIVE SERVICE FROM A 6 VOLT BATTERY SOURCE, THE PERMISSIBLE RANGE IN HEATER VOLTAGE IS FROM 5.0 TO 8.0 VOLTS.

B
AC PLATE SUPPLY VOLTAGE IS MEASURED WITHOUT LOAD.

→ INDICATES A CHANGE.

SIMILAR TYPE REFERENCE: Except for heater ratings, the 6X4 is identical to the 12X4.





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