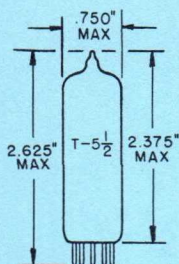


**TUNG-SOL**TWIN DIODE  
MINIATURE TYPE

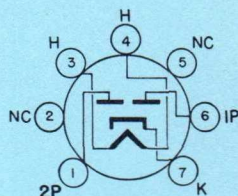
## TWIN DIODES

FOR  
FULL-WAVE POWER-RECTIFIER  
SERVICE IN MOBILE  
AND AIRCRAFT APPLICATIONS

COATED UNIPOTENTIAL CATHODE  
ANY MOUNTING POSITION



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



BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 5B5

THE 6202 IS A FULL-WAVE HIGH-VACUUM RECTIFIER IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR USE IN POWER SUPPLIES IN WHICH THE DC CURRENT REQUIREMENTS DO NOT EXCEED 50 MILLIAMPERES.

THE 6202 IS A DIRECT REPLACEMENT FOR THE 6X4.

**HEATER CHARACTERISTICS AND RATINGS**

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                                         |     |       |         |       |
|-----------------------------------------|-----|-------|---------|-------|
| AVERAGE CHARACTERISTICS                 | 6.3 | VOLTS | 600     | MA.   |
| LIMITS OF APPLIED VOLTAGE               |     |       | 6.3±0.6 | VOLTS |
| MAXIMUM HEATER-CATHODE VOLTAGE:         |     |       |         |       |
| HEATER NEGATIVE WITH RESPECT TO CATHODE |     |       | 450     | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE |     |       | 100     | VOLTS |

**MAXIMUM RATINGS**

DESIGN CENTER VALUES - SEE EIA STANDARD RS-239

## RECTIFIER SERVICE

## SINUSOIDAL SUPPLY VOLTAGES, FREQUENCY 25 TO 1000 CYCLES PER SECOND

|                                               |                    |  |      |       |
|-----------------------------------------------|--------------------|--|------|-------|
| PEAK INVERSE VOLTAGE                          |                    |  |      |       |
| ALTITUDES UP TO 40,000 FEET A                 |                    |  | 1250 | VOLTS |
| ALTITUDES FROM 40,000 TO 60,000 FEET A        |                    |  | 850  | VOLTS |
| AC PLATE SUPPLY VOLTAGE, PER PLATE RMS        | See Chart 1        |  |      |       |
| STEADY-STATE PEAK PLATE CURRENT PER PLATE     |                    |  | 200  | MA.   |
| TRANSIENT PEAK PLATE CURRENT PER PLATE        |                    |  |      |       |
| MAX. DURATION 0.2 SECOND                      |                    |  | 1.45 | AMP.  |
| DC OUTPUT CURRENT                             | See Rating Chart 1 |  |      |       |
| PEAK IMPACT ACCELERATION                      |                    |  | 700  | G     |
| BULB TEMPERATURE AT HOTTEST POINT (ABS. MAX.) |                    |  | +165 | °C    |

AT THE ALTITUDE RATINGS AS PRESENTED REFER TO THE LIMITATIONS OF THE TUBE ITSELF. BECAUSE THE SOCKET EMPLOYED CAN BECOME THE LIMITING FACTOR IN HIGH-ALTITUDE OPERATION, CONSIDERATION MUST BE GIVEN TO THE VOLTAGE-BREAKDOWN CAPABILITIES OF THE TUBE AND SOCKET COMBINATION EMPLOYED.

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CHARACTERISTICS

FULL WAVE RECTIFIER

ALTITUDES UP TO 40,000 FEET

|                                              |       |       |         |
|----------------------------------------------|-------|-------|---------|
| AC PLATE-SUPPLY VOLTAGE PER PLATE, RMS       | 325   | 450   | VOLTS   |
| FILTER INPUT CAPACITOR                       | 4     | ----- | $\mu$ f |
| FILTER INPUT CHOKE                           | ----- | 8     | HENRYS  |
| TOTAL PLATE-SUPPLY RESISTANCE PER PLATE      | 175   | ----- | OHMS    |
| DC OUTPUT CURRENT                            | 50    | 50    | MA.     |
| DC OUTPUT VOLTAGE AT FILTER INPUT            | 365   | 375   | VOLTS   |
| TUBE VOLTAGE DROP                            |       |       |         |
| MEASURED WITH APPLIED DC AT 50 MA. PER PLATE |       | 22    | VOLTS   |

## SPECIAL TESTS AND RATINGS

HEATER CYCLING RATING

SHOCK RATING

VIBRATION RATING

ALTITUDE RATING

TO 60,000 FEET

