

## TUNG-SOL

## DIODE

## OUTLINE DRAWING

## OUTLINE NOTES

CONNECTORS SHOULD NOT EXERT MORE THAN 7 POUNDS RADIAL COMPRESSION AT ANY POINT AROUND THE CIRCUMFERENCE OF THE CAP.

MAXIMUM ECCENTRICITY OF PIN CENTER LINE AND BULB CENTER LINE .040".

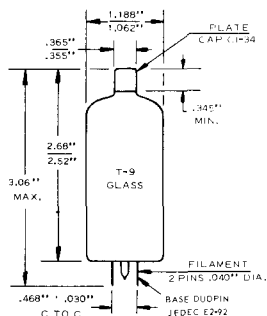
EITHER FILAMENT PIN MAY BE USED FOR THE OUTPUT CONNECTION.

FOR HIGH VOLTAGE SUPPLY

IN TV SERVICE

COATED FILAMENT

ANY MOUNTING POSITION



THE 1AY2 IS A FILAMENTARY HIGH-VOLTAGE DIODE IN DOUBLE-ENDED CONSTRUCTION WITH A NEW TWO-PIN "DUOPIN" BASE. IT IS DESIGNED FOR USE AS THE HIGH-VOLTAGE RECTIFIER IN THE FLY-BACK CIRCUIT TO SUPPLY THE ANODE OF THE TELEVISION PICTURE TUBE. ITS ELECTRICAL CHARACTERISTICS ARE SIMILAR TO THE 1B3GT.

## DIRECT INTERELECTRODE CAPACITANCE

PLATE TO FILAMENT

1.4 pf

## MAXIMUM RATINGS

DESIGN MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

FLYBACK VOLTAGE RECTIFIER <sup>▲</sup>

|                                          |     |    |
|------------------------------------------|-----|----|
| INVERSE PLATE VOLTAGE: TOTAL DC AND PEAK | 26  | KV |
| DC                                       | 22  | KV |
| PEAK PLATE CURRENT                       | 50  | mA |
| AVERAGE PLATE CURRENT                    | 0.5 | mA |

## FILAMENT CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM SYSTEM-SEE EIA STANDARD RS-239

|                                      |            |             |       |
|--------------------------------------|------------|-------------|-------|
| AVERAGE CHARACTERISTICS              | 1.25 VOLTS | 200         | mA    |
| LIMITS OF APPLIED VOLTAGE - AC OR DC |            | 1.25 ± 0.20 | VOLTS |

## AVERAGE CHARACTERISTICS

|                                    |    |       |
|------------------------------------|----|-------|
| TUBE VOLTAGE DROP FOR $I_b = 7$ mA | 75 | VOLTS |
|------------------------------------|----|-------|

<sup>▲</sup> FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

WARNING

*This tube may produce soft X-rays which can constitute a health hazard unless adequately shielded.*