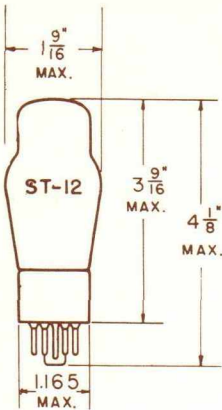


## TUNG-SOL

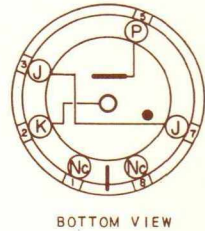


### VOLTAGE REGULATOR

COLD CATHODE - GLOW DISCHARGE

GLASS BULB

SMALL SHELL OCTAL 6-PIN BASE



THE OA3/VR75, OB3/VR90, OC3/VR105, AND OD3/VR150 ARE COLD-CATHODE, GLOW-DISCHARGE TUBES. THEY ARE INTENDED FOR USE AS VOLTAGE REGULATORS IN APPLICATIONS WHERE IT IS NECESSARY TO MAINTAIN A CONSTANT DC OUTPUT VOLTAGE ACROSS A LOAD, INDEPENDENT OF LOAD CURRENT AND MODERATE LINE-VOLTAGE VARIATIONS. LIKE OTHER GLOW-DISCHARGE TUBES, THEY MAY ALSO BE USED AS RELAXATION OSCILLATORS, AND FOR SPARK-OVER PROTECTION.

### RATINGS AND TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

MAXIMUM AND MINIMUM RATINGS ARE ABSOLUTE VALUES

|                                      | OA3/VR75    | OB3/VR90 |       |
|--------------------------------------|-------------|----------|-------|
| DC ANODE SUPPLY VOLTAGE <sup>A</sup> | 105 MIN.    | 125 MIN. | VOLTS |
| DC OPERATING CURRENT (CONTINUOUS)    | 40 MAX.     | 30 MAX.  | MA.   |
| DC OPERATING CURRENT (CONTINUOUS)    | 5.0 MIN.    | 10 MIN.  | MA.   |
| AMBIENT TEMPERATURE RANGE            | -55 TO + 90 |          | °C    |
| DC STARTING VOLTAGE (APPROX.)        | 100         |          | VOLTS |
| DC OPERATING VOLTAGE (APPROX.)       | 75          | 90       | VOLTS |
| REGULATION (5 TO 30 MA.)             | 3.0         |          | VOLTS |
| REGULATION (5 TO 40 MA.)             | 5.0         |          | VOLTS |
| REGULATION (10 TO 30 MA.)            |             | 8.0      | VOLTS |

|                                      | OC3/VR105   | OD3/VR150   |       |
|--------------------------------------|-------------|-------------|-------|
| DC ANODE SUPPLY VOLTAGE <sup>A</sup> | 133 MIN.    | 185 MIN.    | VOLTS |
| DC OPERATING CURRENT (CONTINUOUS)    | 40 MAX.     | 40 MAX.     | MA.   |
| DC OPERATING CURRENT (CONTINUOUS)    | 5.0 MIN.    | 5.0 MIN.    | MA.   |
| AMBIENT TEMPERATURE RANGE            | -55 TO + 90 | -55 TO + 90 | °C    |
| DC STARTING VOLTAGE (APPROX.)        | 115         | 160         | VOLTS |
| DC OPERATING VOLTAGE (APPROX.)       | 105         | 150         | VOLTS |
| REGULATION (5 TO 30 MA.)             | 1.0         | 2.0         | VOLTS |
| REGULATION (5 TO 40 MA.)             | 2.0         | 4.0         | VOLTS |

<sup>A</sup> NOT LESS THAN INDICATED SUPPLY VOLTAGES SHOULD BE PROVIDED TO INSURE "STARTING" THROUGHOUT TUBE LIFE.