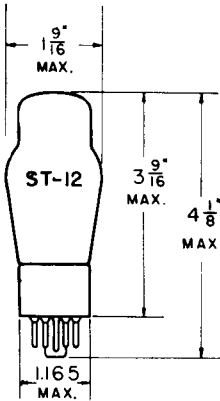


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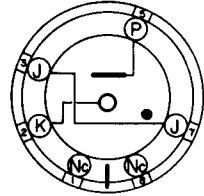


VOLTAGE REGULATOR

COLD CATHODE - GLOW DISCHARGE

GLASS BULB

SMALL SHELL OCTAL 6-PIN BASE



BOTTOM VIEW

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 ^A | 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 (40 TO 30 MA.) | | 8.0 | VOLTS |

| | OC3/VR105 | OD3/VR150 | |
|--------------------------------------|------------------|------------------|-------|
| DC ANODE SUPPLY VOLTAGE ^A | 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 |

^A NOT LESS THAN INDICATED SUPPLY VOLTAGES SHOULD BE PROVIDED TO INSURE "STARTING" THROUGHOUT TUBE LIFE.

PRINTED IN U. S. A.

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AUG. 31
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