



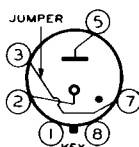
OA3

OA3/VR75

VOLTAGE REGULATOR

GLOW-DISCHARGE TYPE

Cathode	Cold	
Maximum Overall Length		4-1/8"
Maximum Seated Height		3-9/16"
Maximum Diameter		1-9/16"
Bulb		ST-12
Base		Small Shell Octal 6-Pin
Pin 1-No Connection		Pin 5-Anode
Pin 2-Cathode		Pin 7-Jumper #
Pin 3-Jumper*		Pin 8-No Connection
Mounting Position		Any



BOTTOM VIEW (4AJ)

*Maximum And Minimum Ratings Are Absolute Values***RATINGS and CHARACTERISTICS**

D-C Anode-Supply Voltage*	105 min. volts
D-C Operating Current (Continuous)	{ 40 max. ma. 5 min. ma.
Ambient Temperature Range	-55 to +90 °C
Characteristics:	
D-C Starting Voltage (Approx.)	100 volts
D-C Operating Voltage (Approx.)	75 volts
D-C Operating Current (Continuous)	5 to 40 ma.
Regulation (5 to 30 ma.)	3 volts
Regulation (5 to 40 ma.)	5 volts

With suitable socket connections, jumper within base acts as a switch to open power-supply circuit when voltage regulator tube is removed from socket.

* Not less than indicated supply voltage should be provided to insure "starting" throughout tube life.

NOTES:

Sufficient resistance must always be used in series with this type to limit the current through the tube to 40 milliamperes under continuous (steady state) operating conditions. During the interval of 5 to 10 seconds which may be required for the regulated tubes in associated equipment to warm up and draw plate current, a maximum current of 100 milliamperes is permissible provided each such starting period is followed by a steady-state operating period of at least several minutes. Unless this precaution is observed, tube performance will be impaired.

In voltage-regulator tubes of the glow-discharge type, regulation is somewhat dependent on past operating conditions. For example, the regulation value of a tube operated for a protracted period at 5 milliamperes and then changed to 35 milliamperes, may be somewhat different from the value that will be obtained after a long period of operation at 35 milliamperes. Likewise, the regulation value may change somewhat after a long idle period.

