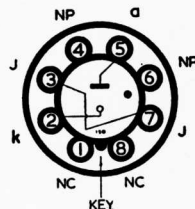


Current Equipment Type

TYPE VR105/30 (OCTAL BASE) VOLTAGE REGULATOR



The VR105/30 is a cold-cathode, gas-filled, voltage-stabiliser for use in industrial and radio equipment where a stable source of voltage is required. It is equivalent to the U.S.A. OC3 type.

CHARACTERISTICS

Maximum striking voltage	127 volts
Minimum applied supply voltage	133 volts
Maximum stabilising voltage at 40 mA	112 volts
Minimum stabilising voltage at 5 mA	105 volts
Nominal stabilising voltage	108 volts
D.C. operating current	5 to 40 mA
Maximum peak current (10 seconds max.)	100 mA
Nominal regulation, 5 to 30 mA	1 volt
Maximum regulation, 5 to 30 mA	2 volts
Nominal regulation, 5 to 40 mA	1.3 volts
Maximum regulation, 5 to 40 mA	4 volts
Nominal drift in stabilising voltage (100 to 1 000 hours)	0.75 volts
Temperature coefficient, -20 to +70°C	±5 mV/°C
Ambient temperature range	-55 to +70°C

NOTE

With suitable socket connections the internal connection between pins 3 and 7 acts as a switch to open the supply or load circuit when the valve is removed.

Not less than the quoted minimum supply voltage should be provided to ensure starting during life.

Sufficient resistance must always be kept in series with this type to limit the current through the valve to 40 mA under steady state conditions. As stated above during the initial warming up period a maximum current of 100 mA is permissible providing that a period of several minutes duration of operation at normal current follows.

Operation with reversed polarity will damage this valve.

Type VR105/30 is a commercial equivalent to the CV686.