

# OB2

## VOLTAGE STABILIZER

**Service Types CV1833, CV8162**

The data to be read in conjunction with the Voltage Stabilizer Preamble.

### DESCRIPTION

The OB2 is a single gap cold cathode gas-filled voltage stabilizer with a B7G base. It is designed to provide a sensibly constant voltage output of 108 volts over the current range 5.0 to 30mA.

### GENERAL DATA

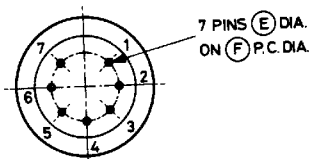
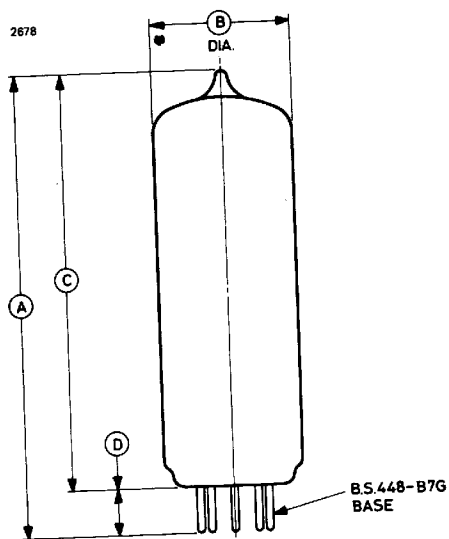
#### Characteristics

|   |            |        |
|---|------------|--------|
| Striking voltage in normal lighting . . . . .                                 | 127        | V max  |
| Striking voltage in total darkness . . . . .                                  | 210        | V max  |
| Operating voltage (approx) . . . . .  | 108        | V      |
| Operating voltage at 30mA . . . . .   | 112        | V max  |
| Operating voltage at 5.0mA . . . . .  | 105        | V min  |
| Cathode current range . . . . .   | 5.0 to 30  | mA     |
| Regulation over current range . . . . .                                       | 3.5        | V max  |
| Noise (r.m.s.) (50 to 5000Hz) over<br>the current range 5.0 to 30mA . . . . . | 5.0        | mV max |
| Ambient temperature range . . . . .   | -55 to +90 | °C     |

#### Mechanical

|                             |                           |
|-----------------------------|---------------------------|
| Overall length . . . . .    | 2.618 inches (66.5mm) max |
| Seated height . . . . .     | 2.366 inches (60.1mm) max |
| Overall diameter . . . . .  | 0.748 inch (19.0mm) max   |
| Mounting position . . . . . | any                       |
| Base . . . . .              | B.S.448-B7G               |

# OUTLINE (All dimensions without limits are nominal)



| Ref | Inches    | Millimetres |
|-----|-----------|-------------|
| A   | 2.618 max | 66.5 max    |
| B   | 0.748 max | 19.0 max    |
| C   | 2.366 max | 60.1 max    |
| D   | 0.281 max | 7.14 max    |
| E   | 0.040     | 1.02        |
| F   | 0.375     | 9.53        |

Millimetre dimensions have been derived from inches.

| Pin | Element             |
|-----|---------------------|
| 1   | Anode               |
| 2   | Cathode             |
| 3   | Internal connection |
| 4   | Cathode             |
| 5   | Anode               |
| 6   | Internal connection |
| 7   | Cathode             |