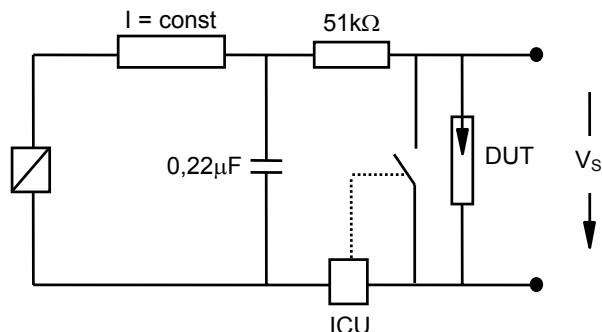


|                                                              |                                                                                                    |            |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------|
| Nominal breakdown voltage $V_N$                              | 5000                                                                                               | V          |
| Initial values <sup>2)</sup>                                 |                                                                                                    |            |
| Static breakdown voltage $V_S$ <sup>1)</sup>                 |                                                                                                    |            |
| First ignition value $V_{S, FTE}$ after 24 hours in darkness | $\leq 6500$                                                                                        | V          |
| Following ignition values $V_{S, FIV}$                       | 4000 ... 6000                                                                                      | V          |
| Electrical life time <sup>3)</sup>                           |                                                                                                    |            |
| Breakdown voltage $V_B$                                      |                                                                                                    |            |
| First ignition value $V_{B, FTE}$ after 24 hours in darkness | $\leq 7000$                                                                                        | V          |
| Following ignition values $V_{B, FIV}$                       | 3750 ... 6250                                                                                      | V          |
| Switching operations<br>at 0 ... +100 °C                     | 100 000                                                                                            | Ignitions  |
| Test circuit parameters                                      |                                                                                                    |            |
| Open circuit voltage $V_0$                                   | 7000                                                                                               | V          |
| Loading resistance R                                         | 4000                                                                                               | k $\Omega$ |
| Discharge capacitance C                                      | 1                                                                                                  | nF         |
| Inductance L                                                 | 20                                                                                                 | $\mu$ H    |
| Discharge peak current $I_P$                                 | 30                                                                                                 | A          |
| General technical data                                       |                                                                                                    |            |
| Insulation resistance at 100 V                               | $> 100$                                                                                            | M $\Omega$ |
| Early ignition values below 3750 V                           | $\leq 1$                                                                                           | %          |
| Breakdown time                                               | $\leq 50$                                                                                          | ns         |
| Maximum switching frequency                                  | 100                                                                                                | Hz         |
| Weight                                                       | $\sim 2$                                                                                           | g          |
| Marking, red                                                 | <b>EPCOS 5000 YY O</b><br>5000 - Nominal voltage<br>YY - Year of production<br>O - Non radioactive |            |

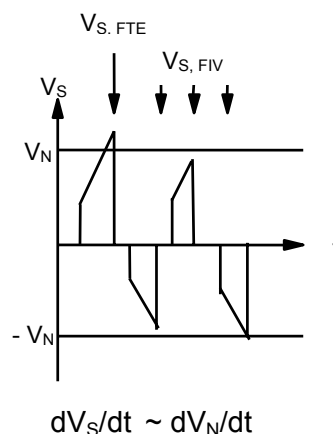
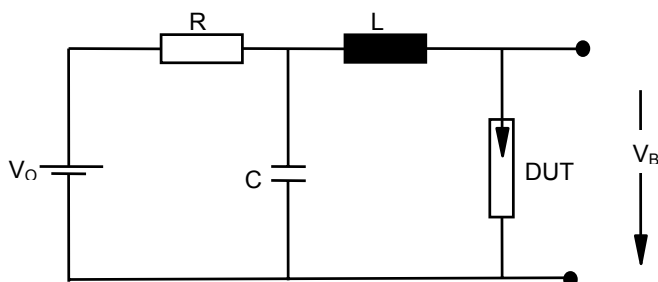
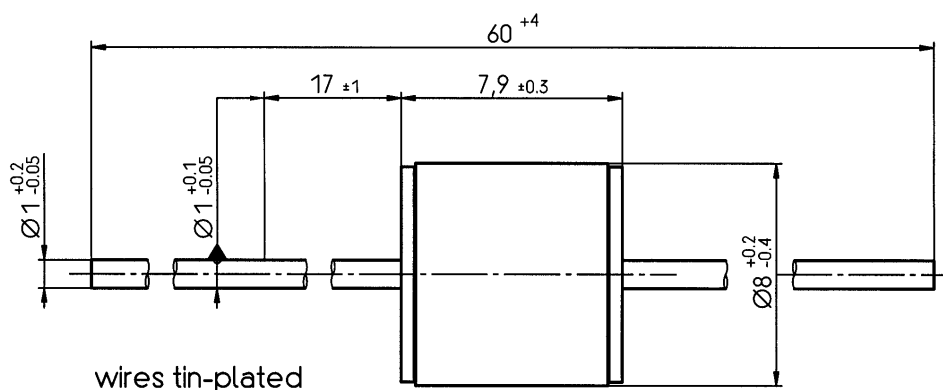
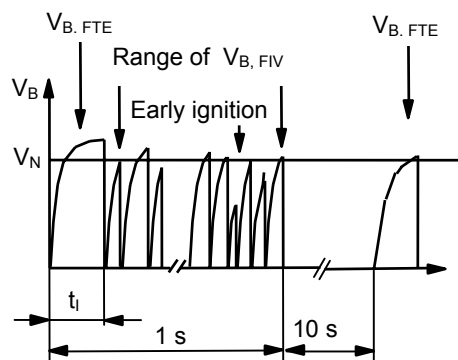
<sup>1)</sup> At delivery AQL 0,65 level II, DIN ISO 2859

<sup>2)</sup> Page 2, Fig. 1 and 2

<sup>3)</sup> Page 2, Fig. 3 and 4

**Fig. 1: QC- test circuit (100% outgoing inspection)**


DUT device under test  
 ICU ignition control unit (sensitivity 10 .. 30 μA)  
 Discharge current 10 – 20 mA

**Fig. 2: Explanation of measurands**

**Fig. 3: QC- test circuit (sampling inspection at 25 °C)**

**Fig. 4: Explanation of measurands**


Not to scale

Dimensions in mm

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