

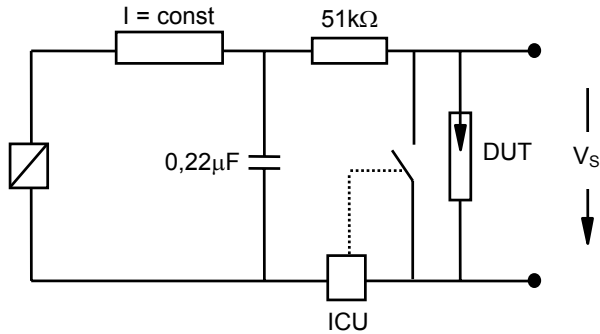
|  |                         |            |
|--|-------------------------|------------|
| Nominal breakdown voltage $V_N$                              | 5000                    | V          |
| Initial values <sup>2)</sup>                                 |                         |            |
| Static 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>  |            |
|  | 5000 - Nominal voltage  |            |
|  | YY - Year of production |            |
|  | 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

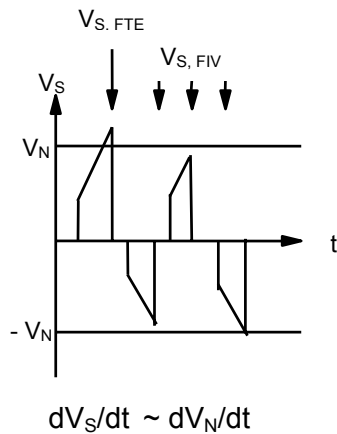


Fig. 3: QC- test circuit (sampling inspection at 25 °C)

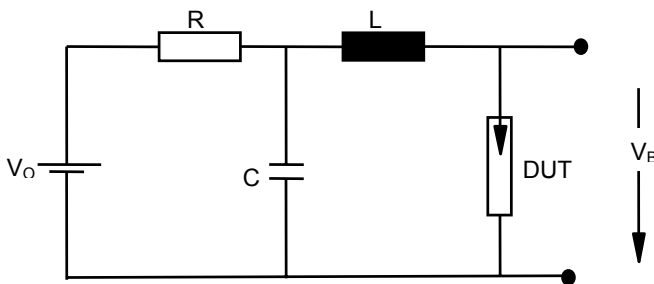
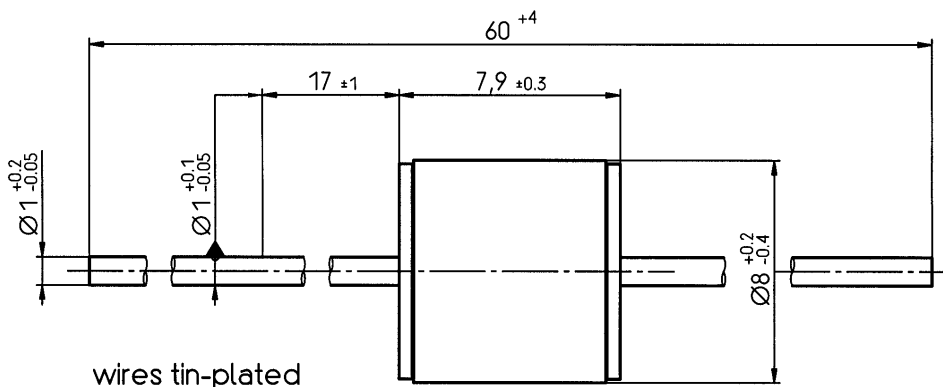
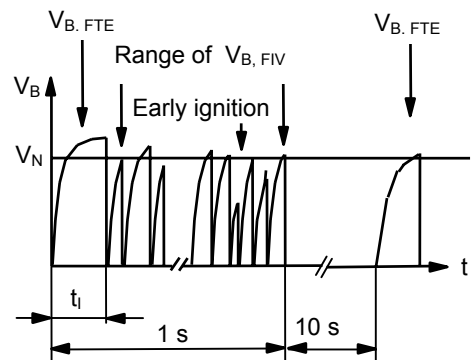


Fig. 4: Explanation of measurands



Not to scale  
 Dimensions in mm  
 Non controlled document

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