

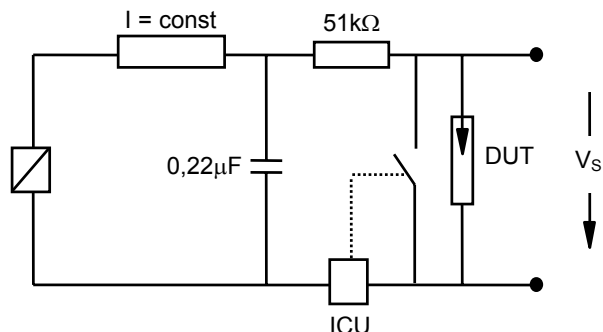
|  |  |            |
|--|--|------------|
| Nominal breakdown voltage $V_N$                              | 800  | V          |
| Initial values <sup>2)</sup>                                 |  |            |
| Static breakdown voltage $V_S$ <sup>1)</sup>                 |  |            |
| First ignition value $V_{S, FTE}$ after 24 hours in darkness | $\leq 1000$  | V          |
| Following ignition values $V_{S, FIV}$                       | 680 ... 920  | V          |
| Electrical life time <sup>3)</sup>                           |  |            |
| Breakdown voltage $V_B$                                      |  |            |
| First ignition value $V_{B, FTE}$ after 24 hours in darkness | $\leq 1100$  | V          |
| Ignition time $t_i$ at $V_0$ during life                     | $\leq 60$  | ms         |
| Following ignition values $V_{B, FIV}$                       | 640 ... 960  | V          |
| Switching operations<br>at 0 ... +100 °C                     | 100 000  | Ignitions  |
| Test circuit parameters                                      |  |            |
| Open circuit voltage $V_0$                                   | 1100   | V          |
| Loading resistance R   | 56   | k $\Omega$ |
| Discharge capacitance C                                      | 100  | nF         |
| Inductance L   | 0.5  | $\mu$ H    |
| Discharge peak current $I_P$                                 | $\sim 400$   | A          |
| General technical data                                       |  |            |
| Insulation resistance at 100 V                               | $> 100$  | M $\Omega$ |
| Early ignition values below 640 V                            | $\leq 2$   | %          |
| Breakdown time   | $\leq 50$  | ns         |
| Maximum switching frequency                                  | 400  | Hz         |
| Maximum loading current                                      | 50   | mA         |
| Weight   | $\sim 2$   | g          |
| Marking, red   | <b>EPCOS 800 YY O</b><br>800 - 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

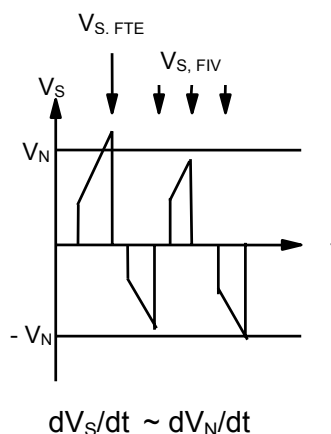
<sup>3)</sup> Page 2, Fig. 3 and 4

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

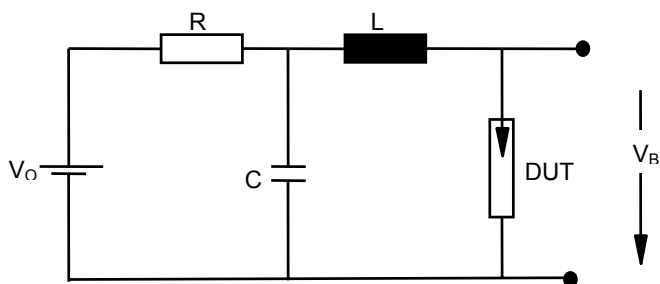


DUT device under test  
 ICU ignition control unit (sensitivity 10 .. 30 µA)  
 Discharge current 10 – 20 mA

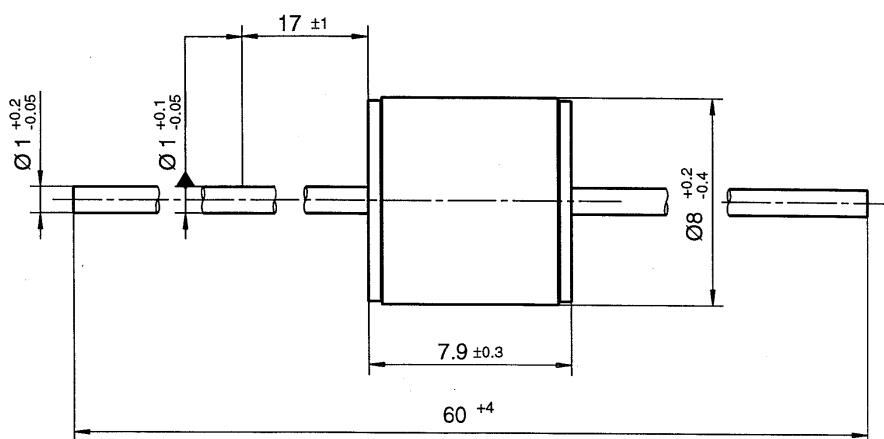
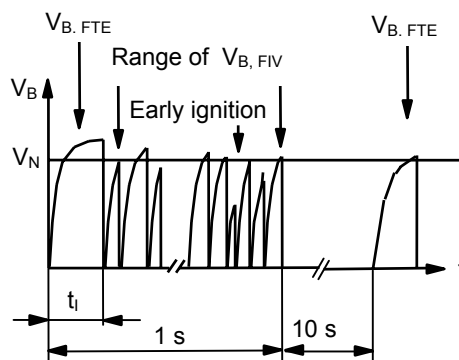
**Fig. 2:** Explanation of measurands



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



**Fig. 4:** Explanation of measurands



Not to scale  
 Dimensions in mm  
 Non controlled document

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