



Switching Spark Gap

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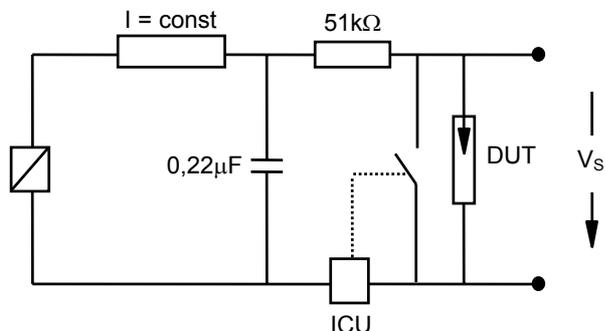
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| | | |
|--|-------------------------|------------|
| Nominal breakdown voltage V_N | 5000 | V |
| Initial values ²⁾ | | |
| Static breakdown voltage V_S ¹⁾ | | |
| First ignition value $V_{S, FTE}$ after 24 hours in darkness | ≤ 6500 | V |
| Following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

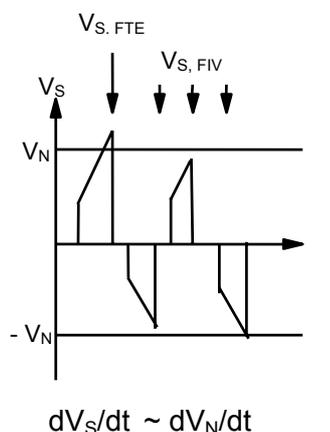
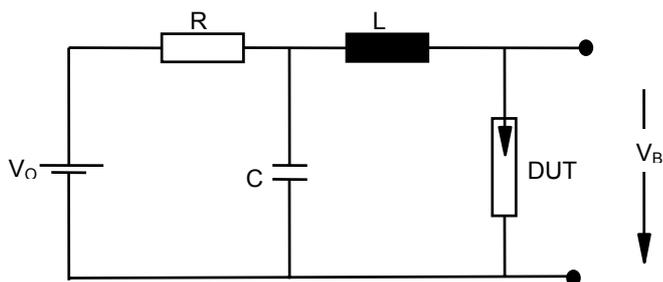
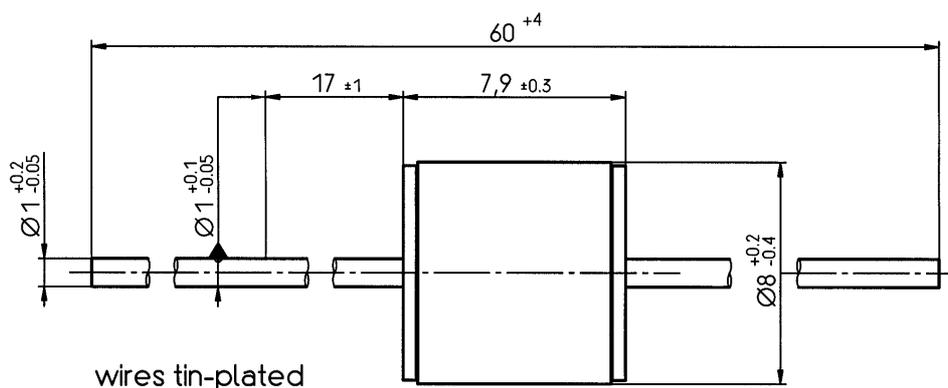
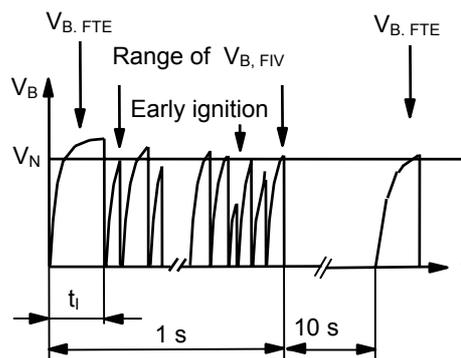
¹⁾ At delivery AQL 0,65 level II, DIN ISO 2859

²⁾ Page 2, Fig. 1 and 2

³⁾ 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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