EPCOS

Switching Spark Gap — SSG3X-1

Ordering code: B88069X0260S102

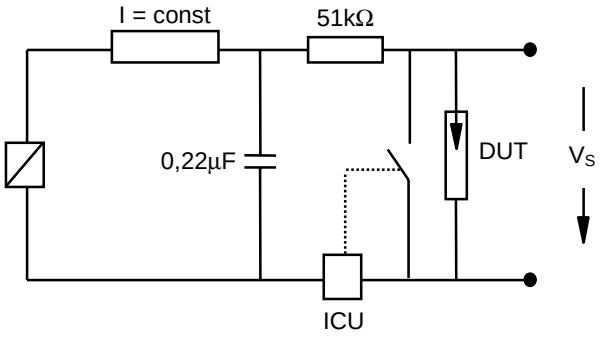
Preliminary data

Nominal breakdown voltage V_N	3000	V
Initial values [2]		
Static breakdown voltage V_S [1]		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 3900	V
Following ignition values $V_{S, FIV}$	2550 ... 3540	V
Electrical life time [3]		
Breakdown voltage V_B		
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 4200	V
Following ignition values $V_{B, FIV}$	2400 ... 3600	V
Switching operations		
at 0 ... +100 °C	1 000 000	Ignitions
Test circuit parameters		
Open circuit voltage V_0	4200	V
Loading resistance R	4000	kΩ
Discharge capacitance C	1.5	nF
Inductance L	7.5	µH
Discharge peak current I_P	50	A
General technical data		
Insulation resistance at 100 V	> 100	MΩ
Early ignition values below 2400 V	≤ 1	%
Breakdown time	≤ 50	ns
Maximum switching frequency	400	Hz
Weight	~ 2	g
Marking, red	EPCOS 3000 YY O 3000 - 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

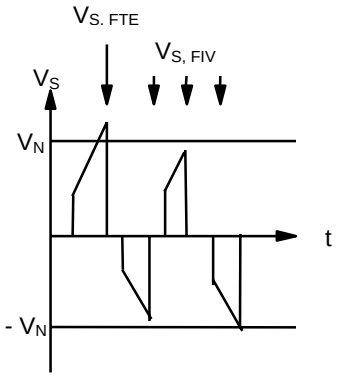
Preliminary data

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



$dV_S/dt \sim dV_N/dt$

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

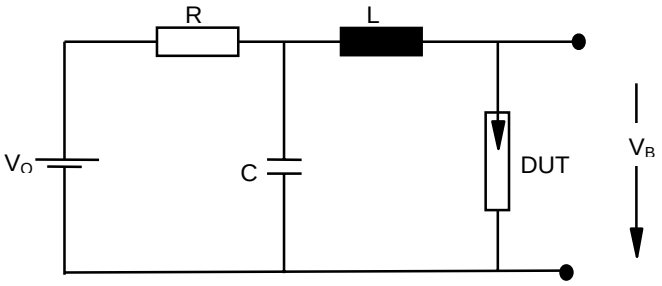
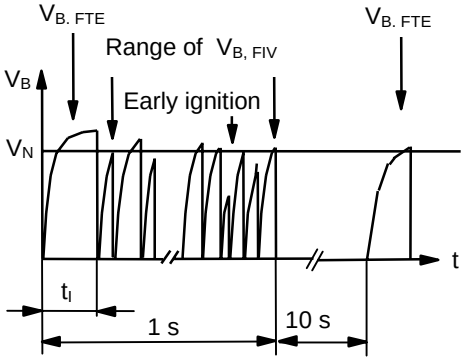
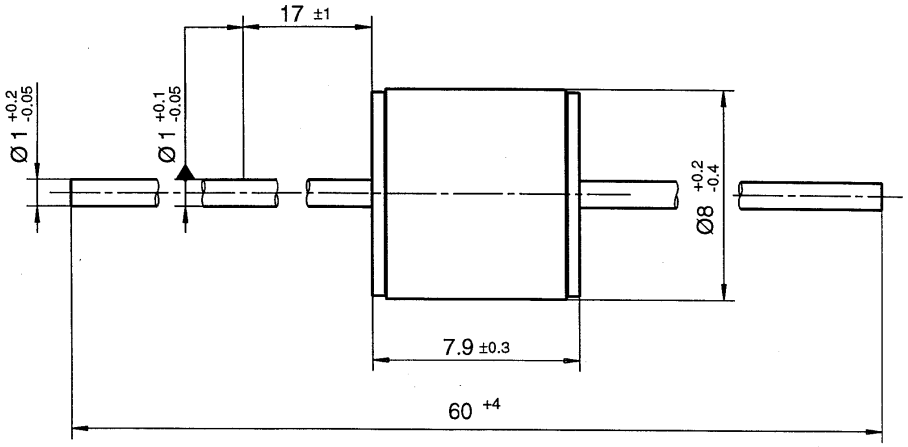


Fig. 4: Explanation of measurands





Not to scale

Dimensions in mm

Non controlled document