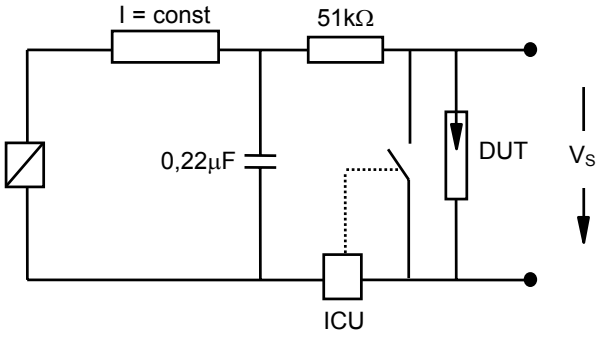
Nominal breakdown voltage V_N	400	V
Initial values		
Static breakdown voltage V_S [1) 2)]		
First ignition value $V_{S, FTE}$ after 24 hours in darkness	≤ 460	V
Following ignition values (selection limits)	360 ... 420	V
Following ignition values $V_{S, FIV}$	350 ... 430	V
Breakdown voltage V_B (measuring time 200 ms) [4)]		
First ignition value $V_{B, FTE}$	≤ 460	V
Following ignition values $V_{B, FIV}$	340 ... 460	V
Electrical life time [3)]		
Breakdown voltage V_B		
First ignition value $V_{B, FTE}$ initial after 24 hours in darkness	≤ 460	V
First ignition value $V_{B, FTE}$ after 24 hours in darkness	≤ 500	V
Following ignition values $V_{B, FIV}$	340 ... 460	V
Switching operations		
at - 40 °C Ignition time t_I ≤ 60 ms [5)]	60 000	Ignitions
at - 40 °C Ignition time t_I ≤ 200 ms	100 000	Ignitions
at +25 °C Ignition time t_I ≤ 60 ms	100 000	Ignitions
at +25 °C Ignition time t_I ≤ 200 ms	200 000	Ignitions
at +125 °C Ignition time t_I ≤ 60 ms	200 000	Ignitions
Test circuit parameters		
Open circuit voltage V_0	500	V
Loading resistance R	10	kΩ
Discharge capacitance C	680	nF
Inductance L	0.5	µH
Discharge peak current I_P	~ 500	A
General technical data		
Insulation resistance at 100 V	> 100	MΩ
Early ignition values below 340 V	≤ 2	%
Breakdown time	≤ 50	ns
Maximum switching frequency	200	Hz
Maximum loading current	50	mA
Weight	~ 2	g
Marking, blue	**EPCOS 400 WWY O** 400 - Nominal voltage WW - Calendar week of production Y - Year of production O - Non radioactive	

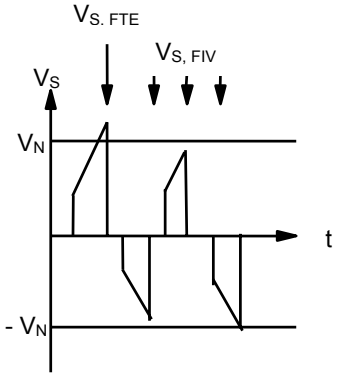
1) At delivery AQL 0,65 level II, DIN ISO 2859
2) Page 2, Fig. 1 and 2
3) Page 2, Fig. 3 and 4
4) Page 2, Fig. 3 and 4, 100 % outgoing inspection
5) After storage in darkness for 30 days

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)

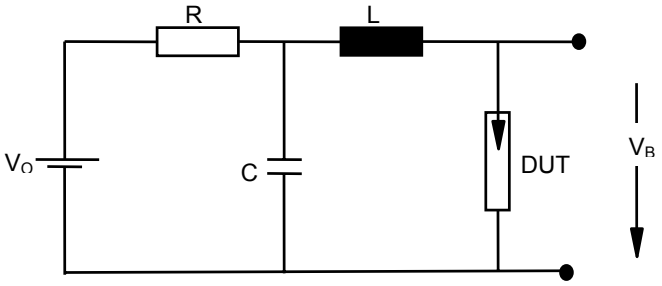
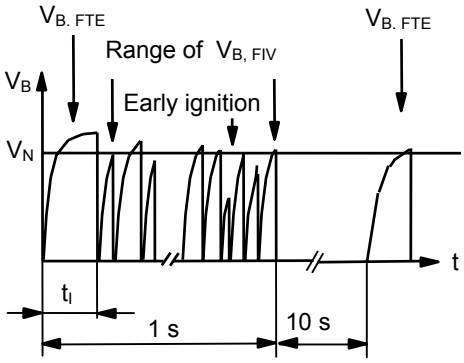
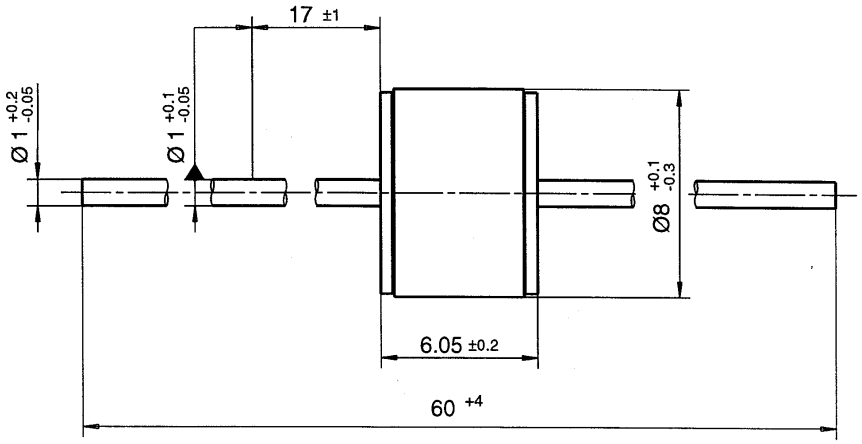


Fig. 4: Explanation of measurands





Not to scale

Dimensions in mm

Non controlled document